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# FACTS AND FIGURES

OF THE  
AUTOMOBILE  
INDUSTRY

NATIONAL AUTOMOBILE  
CHAMBER OF COMMERCE

1931 EDITION



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# FACTS AND FIGURES of the AUTOMOBILE INDUSTRY 1931 EDITION

(Figures for Calendar Year 1930)

**D**ESPITE the depression, 1930 showed a continued growth in motor transportation although at a slackened pace.

The replacement market, of 2,900,000 units, proved to be a firm foundation in the shifting sands of trade.

New and extensive data are shown on such subjects as:

Analysis of retail automotive data gathered in the U. S. Census of Distribution, now available for several hundred of the largest cities.

Highway development in the United States and in the world, motor taxes, automotive shipments on railroads, automotive employment, markets, production, registration, uses of passenger cars, trucks and buses.

The National Automobile Chamber of Commerce which publishes this booklet is the trade association of car and truck manufacturers. Its purpose is to serve the cause of motor transportation. Its activities include the cross-licensing of more than 1700 patents which has resulted in the production of better vehicles and reduced manufacturing costs, with resulting savings to the public.

It fosters the distribution and use of motor vehicles and participates in all motor transport matters where cooperative effort is efficient, economical, and to the advantage of the public and of the industry.

With its predecessors, it has represented the automobile industry for thirty years.

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Extracts from this book may be used with or without credit.

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## NATIONAL AUTOMOBILE CHAMBER OF COMMERCE MARLIN-ROCKWELL BUILDING

366 Madison Avenue, at 46th Street, New York City

Detroit  
General Motors Bldg.

Paris  
New York Herald Bldg.

Washington, D. C.  
Transportation Bldg.

Cable Address: Nautomerce

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# National Automobile Chamber of Commerce

MARLIN-ROCKWELL BLDG., 366 MADISON AVE., AT 46TH ST., NEW YORK CITY, U. S. A.

Washington, D. C.  
Transportation Building

Paris  
New York Herald Building

Detroit, Mich.  
General Motors Building

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## OFFICERS

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<i>First Vice-President</i> .....	ALFRED H. SWAYNE.....	General Motors Corporation
<i>Vice-President</i> .....	A. R. ERSKINE.....	The Studebaker Corporation
Passenger Car Division		
<i>Vice-President</i> .....	A. J. BROUSSEAU.....	Mack Bros. Motor Car Company
Commercial Car Division		
<i>Secretary</i> .....	CHARLES W. NASH.....	Nash Motors Company
<i>Treasurer</i> .....	H. H. RICE	

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<i>General Manager</i> .....	ALFRED REEVES
<i>Assistant General Manager</i> .....	JAMES S. MARVIN
<i>Show Manager</i> .....	S. A. MILES

2  
YEARLY MEETING  
HOLD HERE



# 1930

## *in the* Automobile Industry

*or*

**Production (United States and Canada) . . . . . 3,510,178**

Passenger cars, 2,910,187      Trucks . . .      599,991

**Wholesale Value, Motor Vehicles, Parts and  
Tires . . . . . \$3,330,775,532**

Cars (United States and Canada) . . . \$1,722,644,568

Trucks (United States and Canada) . . . 406,147,577

Parts sold by motor vehicle manu-  
facturers . . . . . 262,365,387

Replacement parts, accessories and  
tires . . . . . 939,618,000

**Foreign Sales of American Motor Vehicles . . . . . 559,907**

**Registration (United States) . . . . . 26,523,779**

Cars . . . . . 23,042,840      Trucks . .      3,480,939

**Motor Vehicle Manufacturing Business in  
United States**

Capital invested (net tangible assets) \$1,880,808,233

Wages and salaries . . . . . 647,588,438

Number employed directly and in-  
directly . . . . . 5,056,000

**Number of Motor Vehicle Dealers in United  
States . . . . . 50,409**

# Production\* and Wholesale Value

PASSENGER CARS		MOTOR TRUCKS		TOTAL CARS AND TRUCKS	
Year	Number	Value	Number	Value	Value
\$1900..	4,192	\$4,899,443	.....	.....	4,192 \$4,899,443
1901..	7,000	8,183,000	.....	.....	7,000 8,183,000
1902..	9,000	10,395,000	.....	.....	9,000 10,395,000
1903..	11,235	13,000,000	.....	.....	11,235 13,000,000
\$1904..	22,419	23,682,492	411	\$946,947	22,830 24,629,439
1905..	24,550	39,030,000	450	970,000	25,000 40,000,000
1906..	33,500	61,850,000	500	1,050,000	34,000 62,900,000
1907..	43,300	92,040,000	700	1,360,000	44,000 93,400,000
1908..	63,500	135,250,000	1,500	2,550,000	65,000 137,800,000
\$1909..	127,731	159,918,506	3,255	5,230,023	130,986 165,148,529
1910..	181,000	215,340,000	6,000	9,660,000	187,000 225,000,000
1911..	199,319	225,000,000	10,681	21,000,000	210,000 246,000,000
1912..	356,000	335,000,000	22,000	43,000,000	378,000 378,000,000
1913..	461,500	399,902,000	23,500	44,000,000	485,000 443,902,000
\$1914..	543,679	413,859,379	25,375	45,098,464	569,054 458,957,843
1915..	895,930	575,978,000	74,000	125,800,000	969,930 701,778,000
1916..	1,525,578	921,378,000	92,130	161,000,000	1,617,708 1,082,378,000
1917..	1,745,792	1,053,505,781	128,157	220,982,668	1,873,949 1,274,488,449
1918..	943,436	801,937,925	227,250	434,168,992	1,170,686 1,236,106,917
1919..	1,657,652	1,461,785,925	275,943	423,326,621	1,933,595 1,885,112,546
1920..	1,905,560	1,809,170,963	321,789	423,249,410	2,227,349 2,232,420,373
†1921..	1,518,061	1,091,752,452	164,304	169,914,098	1,682,365 1,261,666,550
†1922..	2,369,089	1,561,740,645	277,140	231,282,063	2,646,229 1,793,022,708
†1923..	3,753,945	2,274,554,488	426,505	317,478,940	4,180,450 2,592,033,428
†1924..	3,303,646	2,040,706,519	434,140	326,706,496	3,737,786 2,367,413,015
†1925..	3,870,744	2,544,528,799	557,056	470,634,763	4,427,800 3,015,163,562
†1926..	3,948,843	2,746,064,722	556,818	468,752,769	4,505,661 3,214,817,491
†1927..	3,083,360	2,265,633,102	497,020	435,072,641	3,580,380 2,700,705,743
†1928..	4,012,158	2,703,753,500	588,983	459,045,380	4,601,141 3,162,798,880
†1929..	4,794,898	2,981,141,842	826,817	595,504,039	5,621,715 3,576,645,881
†1930..	2,910,187	1,722,644,568	599,991	406,147,577	3,510,178 2,128,792,145

\*Figures for 1921 to date are "factory sales" for U. S. plants and "production" for Canadian plants. Foreign assemblies of parts made in U. S. but assembled abroad are included in this table as well as in the monthly figures compiled by the U. S. Census Bureau.

†From United States Census reports. 1900 for fiscal year ended June 30, 1900.

‡Figures include production of plants located in Canada. See page 5 for Canadian production and wholesale value.

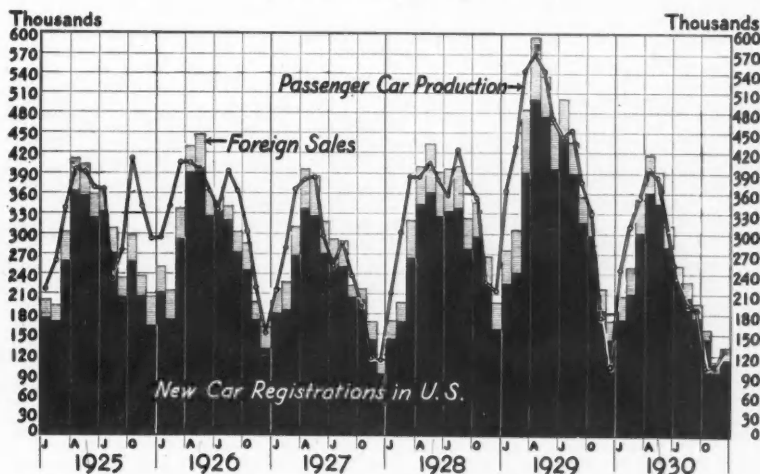
## Annual Percentage Increase in Production

(United States and Canada)

Year	PASSENGER CARS	MOTOR TRUCKS	TOTAL	Year	PASSENGER CARS	MOTOR TRUCKS	TOTAL
1902..	28.5%	.....	28.5%	1916..	70.2%	24.5%	66.7%
1903..	24.8%	.....	24.8%	1917..	14.4%	39.1%	15.8%
1904..	99.6%	.....	103.2%	1918..	-46.0%	77.3%	-37.5%
1905..	9.5%	9.4%	9.5%	1919..	75.7%	21.4%	65.0%
1906..	36.4%	11.1%	36.0%	1920..	15.0%	16.6%	15.1%
1907..	29.2%	40.0%	29.4%	1921..	-19.7%	-52.3%	-24.4%
1908..	46.6%	114.2%	47.7%	1922..	55.0%	81.0%	57.2%
1909..	101.1%	116.3%	101.5%	1923..	58.4%	54.0%	57.9%
1910..	41.7%	84.3%	42.7%	1924..	-12.0%	1.8%	-8.1%
1911..	10.1%	78.0%	12.2%	1925..	17.2%	28.5%	18.4%
1912..	78.6%	105.9%	80.0%	1926..	2.0%	-0.2%	1.7%
1913..	29.6%	6.8%	28.3%	1927..	-22.0%	-10.6%	-20.5%
1914..	17.8%	7.9%	17.3%	1928..	30.0%	18.5%	28.6%
1915..	64.7%	191.6%	70.2%	1929..	19.5%	40.5%	22.0%
				1930..	-39.3%	-27.5%	-37.5%

(—) means decrease.

## Passenger Car Output Adjusted to Domestic and Foreign Sales



Production curve includes United States and Canadian output. Monthly vertical bars represent new car registration in United States and foreign sales (cross-hatched top portion). Foreign sales include exports from United States, foreign assemblies and Canadian production.

## Number and Wholesale Value of Canadian Production, 1921—1930

(Figures from Dominion Bureau of Statistics, Ottawa, Canada)

Year	PASSENGER CARS		TRUCKS		TOTAL	
	Number	Value	Number	Value	Number	Value
1921....	61,098	\$53,561,415	5,148	\$3,843,288	66,246	\$57,404,703
1922....	92,838	67,226,654	8,169	5,232,405	101,007	72,459,059
1923....	127,976	78,282,372	19,226	8,941,011	147,202	87,223,383
1924....	114,537	70,609,960	18,043	8,125,916	132,580	78,735,876
1925....	135,573	86,158,773	26,397	12,234,486	161,970	98,393,259
1926....	166,887	106,000,203	37,840	16,629,334	204,727	122,629,537
1927....	146,421	100,962,241	32,633	14,942,017	169,054	115,904,228
1928....	197,848	127,263,877	44,206	21,913,122	242,054	149,176,999
1929....	203,307	134,023,280	59,318	29,474,395	262,625	163,497,675
1930....	125,442	*77,246,045	28,750	*16,710,887	154,192	*93,956,932

\*Estimated by National Automobile Chamber of Commerce.

# Monthly Motor Vehicle Production

## United States and Canada

(Figures from U. S. Census Bureau and Dominion Bureau of Statistics)

### Passenger Car Production

Year	1924	1925	1926	1927	1928	1929	1930
Jan....	296,155	217,825	287,900	209,902	212,244	364,773	242,672
Feb....	347,428	257,330	337,900	277,376	301,320	431,755	293,036
Mar....	359,997	339,142	402,568	363,595	386,510	546,489	348,087
April..	349,184	397,915	403,271	377,713	384,778	571,956	393,804
May....	290,487	388,819	396,218	378,921	404,444	541,310	382,619
June....	230,487	369,955	359,534	296,035	381,026	469,260	298,130
July....	247,918	364,109	330,007	246,530	357,682	439,598	230,761
Aug....	257,544	229,278	393,823	285,724	422,996	452,857	190,864
Sept....	267,731	275,973	365,553	235,724	374,276	375,046	182,049
Oct....	264,142	405,132	300,854	189,278	351,899	328,305	117,014
Nov....	207,922	337,750	227,131	114,885	223,896	176,629	104,668
Dec....	184,651	287,516	144,084	108,277	211,087	96,920	126,483
Total..	3,303,646	3,870,744	3,948,843	3,083,360	4,012,158	4,794,898	2,910,187

### Motor Truck Production

Year	1924	1925	1926	1927	1928	1929	1930
Jan....	34,022	33,422	36,577	44,382	27,947	57,765	40,938
Feb....	36,892	38,828	44,590	46,014	34,980	65,950	52,925
Mar....	40,661	51,105	53,273	54,168	44,273	79,587	69,031
April..	43,065	54,936	57,567	53,280	49,537	91,855	74,477
May....	41,734	50,376	53,883	52,435	55,281	94,940	62,080
June....	33,020	43,989	48,486	46,990	44,169	98,164	51,466
July....	31,620	46,878	44,811	33,853	59,630	78,703	44,960
Aug....	33,465	39,921	48,313	36,796	69,547	59,985	43,296
Sept....	36,590	62,559	50,880	36,448	62,231	54,683	46,557
Oct....	38,038	51,962	48,237	38,152	63,921	66,235	41,928
Nov....	33,732	45,271	38,998	26,102	45,013	50,368	37,493
Dec....	31,301	37,809	31,203	28,400	32,454	28,582	34,840
Total..	434,140	557,056	556,818	497,020	588,983	826,817	599,991

### Passenger Car and Truck Production

Year	1924	1925	1926	1927	1928	1929	1930
Jan....	330,177	251,247	324,477	254,284	240,191	422,538	283,610
Feb....	384,320	296,158	382,490	323,390	336,300	497,705	345,961
Mar....	400,658	390,247	455,841	417,763	430,783	626,076	417,118
Apr....	392,249	452,851	460,838	430,993	434,315	663,811	468,281
May....	332,221	439,195	450,101	431,356	459,725	636,250	444,699
June....	263,507	413,944	408,020	343,025	425,195	567,424	349,596
July....	279,538	410,987	374,818	280,383	417,312	518,301	275,721
Aug....	291,009	269,199	442,136	322,520	492,543	512,842	234,160
Sept....	304,321	338,532	416,433	271,572	436,507	429,729	228,606
Oct....	302,180	457,094	349,091	227,430	415,820	394,540	158,942
Nov....	241,654	383,021	266,129	140,987	268,909	226,997	142,161
Dec....	215,952	325,325	175,287	136,677	243,541	125,502	161,323
Total..	3,737,786	4,427,800	4,505,661	3,580,380	4,601,141	5,621,715	3,510,178

# Canadian Motor Vehicle Production 1924-1930

(Figures from Dominion Bureau of Statistics)

## PASSENGER CARS

Year	1924	1925	1926	1927	1928	1929	1930
Jan...	9,841	8,315	11,781	11,745	6,705	17,164	8,856
Feb...	12,072	10,406	14,761	14,826	10,315	25,584	13,021
Mar...	15,194	13,227	17,989	19,723	15,227	32,883	17,165
Apr...	14,448	16,614	17,929	20,890	20,517	34,392	20,872
May...	15,291	17,627	21,429	21,991	29,764	25,129	21,251
June...	10,757	13,260	18,818	16,470	25,341	16,511	12,194
July...	8,619	10,212	12,847	8,719	20,122	13,600	8,556
Aug...	5,436	7,248	12,782	10,139	24,274	11,037	6,946
Sept...	6,588	10,270	13,483	8,681	16,572	10,710	5,623
Oct...	6,357	13,460	10,600	6,236	13,016	8,975	3,206
Nov...	5,962	8,456	6,774	5,173	8,154	7,137	3,527
Dec...	7,200	6,478	5,663	2,234	6,734	4,426	4,225
Total..	117,765	135,573	164,856	146,827	196,741	207,498	125,442

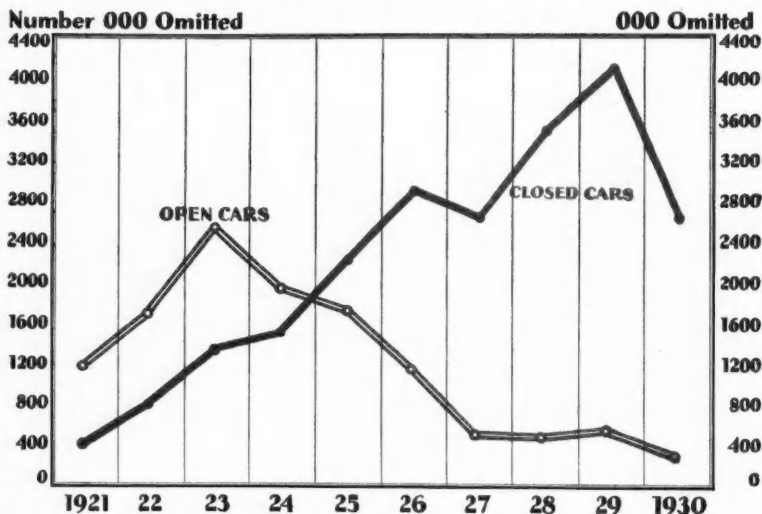
## COMMERCIAL CARS AND TRUCKS

Year..	1924	1925	1926	1927	1928	1929	1930
Jan...	1,747	2,353	3,698	3,631	1,758	4,337	1,532
Feb...	1,679	2,114	4,077	3,829	2,189	5,703	2,527
Mar...	2,040	2,614	4,385	3,527	2,242	7,788	3,565
Apr...	1,933	2,445	3,573	3,721	3,694	7,509	3,385
May...	1,753	2,512	3,505	3,717	4,178	6,430	3,421
June...	950	2,160	2,933	2,738	3,058	4,981	2,896
July...	1,107	1,828	2,361	2,268	5,104	3,861	1,632
Aug...	880	1,715	2,503	2,387	6,971	3,177	2,846
Sept...	1,351	2,534	4,012	2,581	4,621	3,107	2,334
Oct...	1,270	1,653	4,070	1,512	5,520	5,548	1,335
Nov...	1,081	2,294	3,054	1,444	3,615	2,287	1,880
Dec...	1,690	2,175	1,700	872	2,691	1,069	1,397
Total..	17,481	26,397	39,871	32,227	45,641	55,797	28,750

## TOTAL MOTOR VEHICLES

Year..	1924	1925	1926	1927	1928	1929	1930
Jan...	11,588	10,668	15,479	15,376	8,463	21,501	10,388
Feb...	13,751	12,520	18,838	18,655	12,504	31,287	15,548
Mar...	17,234	15,841	22,374	23,250	17,469	40,621	20,730
Apr...	16,381	19,059	21,502	24,611	24,211	41,901	24,257
May...	17,044	20,139	24,934	25,708	33,942	31,559	24,672
June...	11,707	15,420	21,751	19,208	28,399	21,492	15,090
July...	9,726	12,040	15,208	10,987	25,226	17,461	10,188
Aug...	6,316	8,963	15,285	12,526	31,245	14,214	9,792
Sept...	7,939	12,804	17,495	11,262	21,193	13,817	7,957
Oct...	7,627	15,113	14,670	7,748	18,536	14,523	4,541
Nov...	7,043	10,750	9,828	6,617	11,769	9,424	5,407
Dec...	8,890	8,653	7,363	3,106	9,425	5,495	5,622
Total..	135,246	161,970	204,727	179,054	242,382	263,295	154,192

# Production of Open and Closed Cars



## Number and Percentage of Closed Cars, 1919-1930

### United States and Canada

Year	Open	Closed	% Closed	Year	Open	Closed	% Closed
1919*	1,496,652	161,000	10.3%	1925...	1,684,106	2,186,638	56.5%
1920*	1,581,610	323,950	17.0%	1926...	1,105,505	2,843,338	72.0%
1921...	1,182,576	335,485	22.1%	1927...	466,238	2,617,122	84.9%
1922...	1,654,909	714,180	30.0%	1928...	460,128	3,552,030	88.5%
1923...	2,477,635	1,276,310	34.0%	1929...	510,409	4,284,489	89.4%
1924...	1,883,280	1,420,366	43.0%	1930...	282,729	2,627,458	90.3%

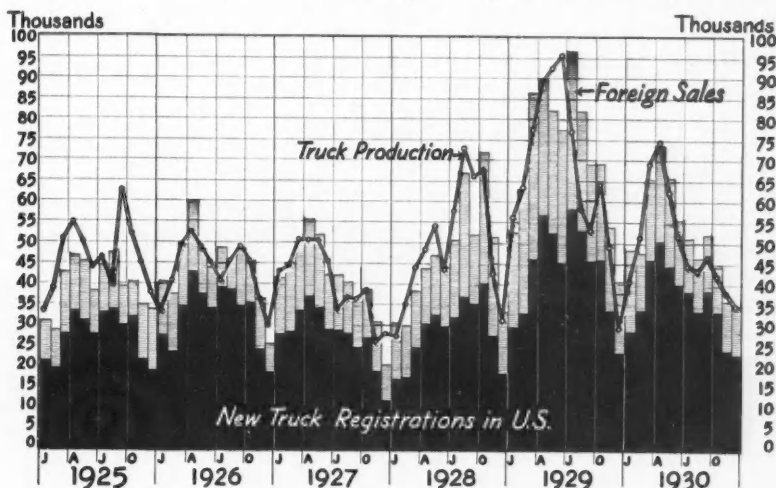
\*United States only.

## Passenger Car Production by Body Types

### United States and Canada

	1928		1929		1930	
	Number	Per Cent	Number	Per Cent	Number	Per Cent
Touring.....	226,977	5.7	178,782	3.7	77,948	2.7
Roadster.....	219,050	5.5	322,502	6.7	202,081	6.9
Coupe.....	778,802	19.4	994,311	20.7	700,827	24.1
2-door Sedan.....	1,049,226	26.1	1,344,604	28.0	782,276	26.9
All other closed cars.	1,613,474	40.2	1,868,274	39.1	1,119,116	38.4
Chassis.....	124,629	3.1	86,425	1.8	27,939	1.0
Total.....	4,012,158	100%	4,794,898	100%	2,910,187	100%

# Truck Output Closely Adjusted to Sales



Truck production curve includes output in United States, Canada and foreign assembly plants. Foreign sales include exports from United States, Canadian production and foreign assemblies. New registrations in United States are from R. L. Polk and Company.

## Truck Production by Capacities

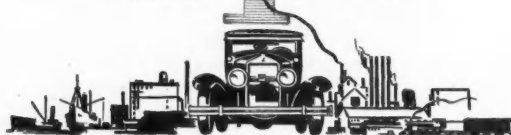
### UNITED STATES AND CANADA

	1924	1925	1926	1927	1928	1929	1930
$\frac{3}{4}$ ton or less.....	64,988	81,567	99,286	88,046	95,232	141,859	144,869
1 ton and less than $1\frac{1}{2}$	310,930	391,165	347,167	319,637	313,270	78,786	31,028
$1\frac{1}{2}$ ton and less than 2	20,465	29,401	47,000	29,107	112,171	523,691	370,541
2 ton and less than $2\frac{1}{2}$	8,225	12,456	19,993	27,313	30,456	28,416	16,477
$2\frac{1}{2}$ ton, less than $3\frac{1}{2}$	14,294	16,691	18,231	16,584	21,813	33,530	22,887
$3\frac{1}{2}$ ton and less than 5	3,643	6,191	5,514	4,471	4,746	8,643	6,412
5 ton.....	6,635	17,990	9,030	4,128	2,219	2,384	1,094
Over 5 ton & spec'l types	4,960	11,595	10,597	7,734	9,076	9,508	8,683
<b>Total.....</b>	<b>434,140</b>	<b>557,056</b>	<b>556,818</b>	<b>497,020</b>	<b>588,983</b>	<b>826,817</b>	<b>599,991</b>

## Truck Production by Capacities—Per Cent

	1924	1925	1926	1927	1928	1929	1930
$\frac{3}{4}$ ton or less.....	15.0	14.7	17.8	17.7	16.2	17.1	24.0
1 ton and less than $1\frac{1}{2}$	71.6	70.2	62.4	64.3	53.2	9.5	5.2
$1\frac{1}{2}$ ton and less than 2	4.7	5.3	8.4	5.9	19.0	63.4	61.7
2 ton and less than $2\frac{1}{2}$	1.9	2.2	3.6	5.5	5.2	3.4	2.7
$2\frac{1}{2}$ ton and less than $3\frac{1}{2}$	3.3	3.0	3.3	3.3	3.7	4.1	3.8
$3\frac{1}{2}$ ton and less than 5	.8	1.1	1.0	.9	.8	1.0	1.0
5 ton.....	1.5	1.4	1.6	.8	.4	.3	.2
Over 5 ton & spec'l types	1.2	2.1	1.9	1.6	1.5	1.2	1.4
<b>Total.....</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

# Automobile Industry Ranks 1 First



(Source: 1929 Census of Manufactures)

Industry	Value of Products
1. Motor vehicles.....	\$3,717,996,553
2. Slaughtering and meat packing.....	3,394,672,995
3. Steel works and rolling mills.....	3,356,894,259
4. Foundry and machine shop products...	2,751,678,813
5. Petroleum refining.....	2,611,680,940
6. Electrical machinery.....	2,273,653,853
7. Printing and publishing.....	1,719,878,622
8. Clothing, women's, (not elsewhere classified)....	1,678,496,450
9. Motor vehicle bodies and parts.....	1,545,399,408
10. Bread and other bakery products.....	1,510,265,011

## Automotive Manufactures One-Eighth of Total

(Source: 1929 Census of Manufactures)

Industry	Number of Wage Earners	Total Wages	Value of Products	Value Added by Manufacture
Motor Vehicle....	225,583	\$365,660,895	\$3,717,996,553	\$1,319,678,462
Motor Vehicle Parts & Bodies....	222,181	368,106,610	1,545,399,408*	684,693,330*
Rubber Tires.....	83,015	126,782,001	776,703,565*	345,513,663*
Petroleum Refining	76,840	125,948,505	2,611,680,940	555,946,754
Total Automotive	607,619	\$986,498,011	\$8,651,780,466	\$2,905,832,209
All Manufactures.	8,550,284	\$11,271,016,618	\$68,453,486,518	\$31,095,855,410
Per cent Automotive....	7.1%	8.7%	12.7%	9.3%

\*Some duplication occurs between the motor bodies and parts industry and the motor vehicle industry in that a portion of the former is also included in the latter in the form of original equipment, but this duplication likewise occurs in the figure for all manufactures. The percentages, therefore, represent fairly closely the facts.



# Automobile Dollar Worth \$1.28

Cost-of-Living Dollar Worth 67½ Cents

Compared With 1914



1914

*Automobile Dollar*



TODAY



*Cost-of-Living Dollar*



Sources: Cost-of-Living as of December 1930 from National Industrial Conference Board, Inc. Computation of purchasing power of automobile dollar based on total annual production and total annual value of output.

## 83 Percent of American Output for Domestic Replacements in 1930

FOREIGN MARKET			DOMESTIC MARKET			FOREIGN MARKET			DOMESTIC MARKET		
Year	(Including Canada)	Replacements	New and Multiple Car Buyers	Year	(Including Canada)	Replacements	New and Multiple Car Buyers	Year	(Including Canada)	Replacements	New and Multiple Car Buyers
1913...	8.9%	23.3%	67.8%	1922...	8.7%	30.1%	61.2%	1922...	8.7%	30.1%	61.2%
1914...	7.8%	22.2%	70.0%	1923...	9.1%	21.0%	69.9%	1923...	9.1%	21.0%	69.9%
1915...	9.4%	32.1%	58.5%	1924...	11.5%	30.8%	57.7%	1924...	11.5%	30.8%	57.7%
1916...	8.0%	23.8%	68.2%	1925...	13.4%	37.7%	48.9%	1925...	13.4%	37.7%	48.9%
1917...	8.9%	7.2%	83.9%	1926...	13.3%	40.5%	46.2%	1926...	13.3%	40.5%	46.2%
1918...	10.3%	15.7%	74.0%	1927...	18.0%	59.0%	23.0%	1927...	18.0%	59.0%	23.0%
1919...	8.4%	20.2%	71.4%	1928...	18.0%	54.6%	27.4%	1928...	18.0%	54.6%	27.4%
1920...	11.7%	15.3%	73.0%	1929...	17.8%	49.3%	32.9%	1929...	17.8%	49.3%	32.9%
1921...	7.5%	28.7%	63.8%	1930...	16.0%	82.6%	1.4%	1930...	16.0%	82.6%	1.4%

### Footnote from Pages Twelve and Thirteen

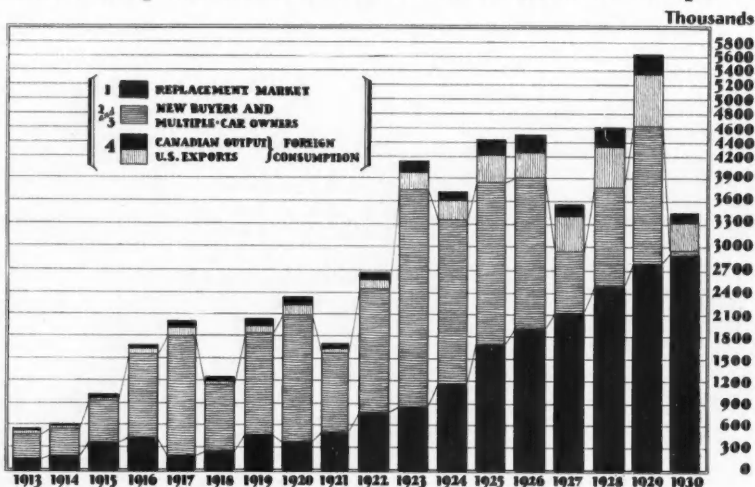
Sample computation of replacements for 1926: Add 1926 cars going into the domestic market, 3,908,854, to the 1925 registration of 19,937,274. Subtract from this sum the 1926 registration of 22,001,393 leaving 1,844,735. This is called the unadjusted figure for replacements.

Due to the fact that in about one-half of the states the law permits the transfer of the license on the scrapped car to the same registrant's new car and in the remaining states the license is discarded with the old car, and due to other owners' practices as well, it has been assumed that one-half of the cars represented by the "unadjusted" figure (1,844,735) were scrapped in that same year (1926) and the other half scrapped in the preceding year (1925).

By adding half of the "unadjusted" figure for 1927 to half of 1926 "unadjusted" figure, a total of 1,824,230 is obtained as representing the 1926 replacements.

\*Half of 1931 unadjusted scrapped has been estimated to arrive at 2,900,000.

## 1930 Replacement Market Takes 83% of Output



The replacement market in the United States in 1930 continued the steady upward trend obtaining in preceding years.

## Automobile Markets

(Figures include all Motor Vehicles)

### FOREIGN MARKET

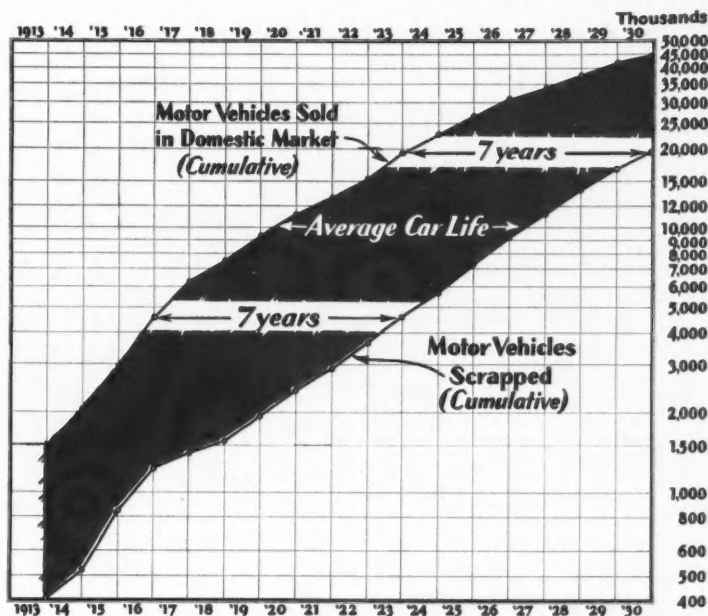
### DOMESTIC MARKET

Year	Production U. S. and Canada	Canadian Output	U. S. Exports†	Total Foreign	New and Multiple Car Buyers	Replaces- ments	Total Domestic
1913...	503,000	18,000	26,889	44,889	340,687	117,424	458,111
1914...	589,054	20,000	25,765	45,765	412,202	131,087	543,289
1915...	999,930	30,000	63,958	93,958	584,557	321,415	905,972
1916...	1,669,708	52,000	80,843	132,843	1,139,659	397,206	1,536,865
1917...	1,967,759	93,810	80,235	174,045	1,651,871	141,843	1,793,714
1918...	1,253,094	82,408	47,244	129,652	927,247	196,195	1,123,442
1919...	2,021,430	87,835	82,730	170,565	1,442,455	408,410	1,850,865
1920...	2,321,493	94,144	177,111	271,255	1,696,299	353,939	2,050,238
1921...	1,682,365	66,246	60,657	126,903	1,072,633	482,829	1,555,462
1922...	2,646,229	102,053	127,072	229,125	1,622,148	794,956	2,417,104
1923...	4,180,450	146,438	235,077	381,515	2,921,792	877,143	3,798,935
1924...	3,737,786	135,246	293,126	428,372	2,158,033	1,151,381	3,309,414
1925...	4,427,800	161,970	428,667	590,637	2,166,826	1,670,337	3,837,163
1926...	4,505,661	204,727	392,893	597,620	2,083,811	1,824,230	3,908,041
1927...	3,580,380	179,054	466,384	645,438	824,728	2,110,214	2,934,942
1928...	4,601,141	242,382	582,731	825,113	1,259,160	2,516,868	3,776,028
1929...	5,621,715	263,295	733,816	997,111	1,851,766	2,772,838	4,624,604
1930...	3,510,178	154,192	405,716	559,908	50,270	*2,900,000	2,950,270

\*Partly estimated; see footnote on page 11 for method of computation.

†Slight difference between export and domestic market figures in this table and those in table on replacements is due to imports.

# Average Life of Cars Seven Years

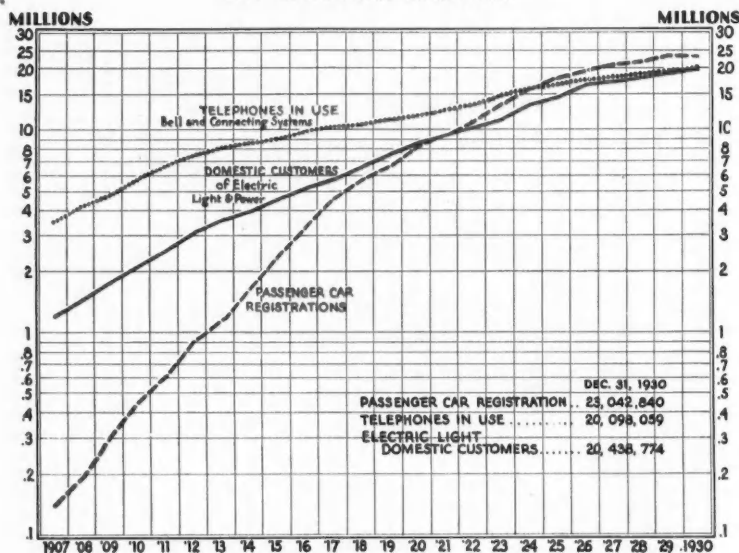


## Annual U. S. Replacements, 2,900,000

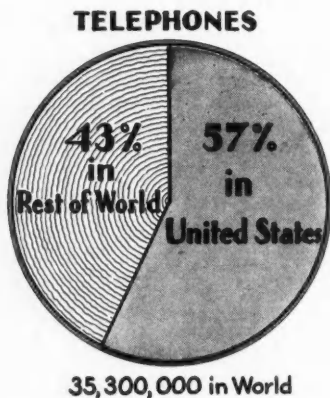
Year	U. S. Production	U. S. Net Exports	U. S. Domestic Market	U. S. Registration	Unadjusted Scrapped	Total Scrapped or Replacements
1913	485,000	26,397	458,603	1,258,062	144,541	117,424
1914	569,054	25,469	543,585	1,711,339	90,308	131,087
1915	969,930	63,737	906,193	2,445,666	171,866	321,415
1916	1,617,708	79,414	1,538,294	3,512,996	470,964	397,206
1917	1,873,949	80,157	1,793,792	4,983,340	323,448	141,843
1918	1,170,686	47,171	1,123,515	6,146,617	—39,762	196,195
1919	1,933,595	82,613	1,850,982	7,565,446	432,153	408,410
1920	2,227,349	176,185	2,051,164	9,231,941	384,669	353,939
1921	1,616,119	60,135	1,555,984	10,464,715	323,210	482,829
1922	2,544,176	126,589	2,417,587	12,239,853	642,449	794,956
1923	4,034,012	234,224	3,799,788	15,092,177	947,464	877,143
1924	3,602,540	292,522	3,310,018	17,595,373	806,822	1,151,381
1925	4,265,830	427,989	3,837,841	19,937,274	1,495,940	1,670,337
1926	4,300,934	392,080	3,908,854	22,001,393	1,844,735	1,824,230
1927	3,401,326	465,749	2,935,577	23,133,243	1,803,727	2,110,214
1928	4,358,748	582,165	3,776,583	24,493,124	2,416,702	2,516,868
1929	5,358,420	733,066	4,625,354	26,501,443	2,617,035	2,772,838
1930	3,355,986	405,007	2,950,979	26,523,779	2,928,643	*2,900,000

\*See footnote on page 11.

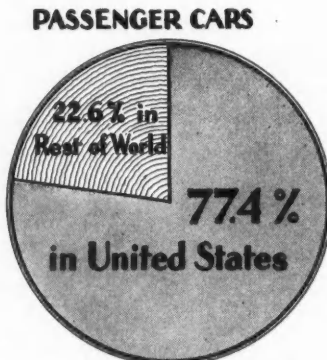
# Automobiles in Use Exceed Telephones in United States in United States



**77.4% of World Passenger Cars and 57% of World Telephones in United States**



35,300,000 in World



29,766,985 in World

# Standing of States in Registrations, 1930

MOTOR VEHICLE REGISTRATION	NUMERICAL INCREASE OVER 1929	PER CENT INCREASE OVER 1929	POPULATION PER MOTOR VEHICLE
1 N. Y. .... 2,307,730	1 Calif. .... 67,015	1 N. M. .... 7.4	1 Calif. .... 2.78
2 Calif. .... 2,041,356	2 N. Y. .... 44,471	2 Mass. .... 3.5	2 Nev. .... 3.07
3 Ohio. .... 1,759,363	3 Mass. .... 28,502	3 D. of C. .... 3.4	3 D. of C. .... 3.11
4 Pa. .... 1,753,521	4 Ill. .... 23,172	4 Calif. .... 3.4	4 Kans. .... 3.16
5 Ill. .... 1,638,260	5 N. J. .... 20,518	5 N. H. .... 3.0	5 Nebr. .... 3.23
6 Texas. .... 1,365,896	6 Pa. .... 20,238	6 N. J. .... 2.5	6 Colo. .... 3.36
7 Mich. .... 1,328,209	7 Texas. .... 17,789	7 Kan. .... 2.3	7 S. D. .... 3.38
8 Ind. .... 875,763	8 Kan. .... 13,300	8 Del. .... 2.1	8 Iowa. .... 3.41
9 N. J. .... 852,850	9 Ind. .... 9,048	9 N. Y. .... 2.0	9 Minn. .... 3.50
10 Mass. .... 846,206	10 Nebr. .... 8,003	10 Nebr. .... 1.9	10 Wash. .... 3.50
11 Wis. .... 782,562	11 Tenn. .... 5,828	11 R. I. .... 1.8	11 Mich. .... 3.65
12 Iowa. .... 778,386	12 N. M. .... 5,776	12 Colo. .... 1.7	12 Wyo. .... 3.67
13 Mo. .... 761,600	13 D. of C. .... 5,226	13 Tenn. .... 1.6	13 Ind. .... 3.68
14 Minn. .... 732,972	14 Colo. .... 5,020	14 Ill. .... 1.4	14 N. D. .... 3.72
15 Kan. .... 594,523	15 Mo. .... 4,920	15 Ariz. .... 1.4	15 Wis. .... 3.76
16 Okla. .... 550,331	16 Wash. .... 3,721	16 Wyo. .... 1.4	16 Ohio. .... 3.78
17 N. C. .... 453,241	17 N. H. .... 3,303	17 Texas. .... 1.3	17 Ore. .... 3.78
18 Wash. .... 446,062	18 Conn. .... 2,963	18 Utah. .... 1.2	18 Idaho. .... 3.79
19 Nebr. .... 426,229	19 Minn. .... 2,573	19 Pa. .... 1.2	19 Ariz. .... 3.94
20 Va. .... 425,889	20 R. I. .... 2,414	20 Ind. .... 1.0	20 Mont. .... 3.98
21 Tenn. .... 368,259	21 Md. .... 1,829	21 Conn. .... 0.9	21 N. H. .... 4.15
22 Ga. .... 341,580	22 Maine. .... 1,651	22 Maine. .... 0.9	22 Del. .... 4.25
23 Conn. .... 331,026	23 Ariz. .... 1,512	23 Idaho. .... 0.8	23 Texas. .... 4.26
24 Ky. .... 331,002	24 Utah. .... 1,336	24 Wash. .... 0.8	24 Maine. .... 4.29
25 Fla. .... 327,801	25 Del. .... 1,149	25 Mo. .... 0.6	25 Okla. .... 4.35
26 Md. .... 321,702	26 Idaho. .... 1,003	26 Md. .... 0.6	26 Utah. .... 4.45
27 Colo. .... 308,509	27 S. D. .... 973	27 S. D. .... 0.5	27 Fla. .... 4.48
28 Ala. .... 277,146	28 Wyo. .... 821	28 Minn. .... -0.4	28 Ill. .... 4.66
29 La. .... 275,283	29 Ky. .... -1,846	29 Ohio. .... -0.4	29 N. J. .... 4.70
30 W. Va. .... 266,273	30 Nev. .... -2,270	30 Ky. .... -0.6	30 Mo. .... 4.77
31 Ore. .... 252,123	31 W. Va. .... -2,615	31 Iowa. .... -0.8	31 Conn. .... 4.85
32 Miss. .... 237,094	32 N. D. .... -5,027	32 W. Va. .... -1.0	32 Mass. .... 5.02
33 Ark. .... 220,204	33 Mont. .... -5,219	33 Wis. .... -1.4	33 N. M. .... 5.03
34 S. C. .... 218,402	34 La. .... -5,585	34 La. .... -2.0	34 R. I. .... 5.04
35 S. D. .... 205,172	35 Iowa. .... -6,064	35 N. D. .... -2.7	35 Md. .... 5.07
36 Maine. .... 186,157	36 Vt. .... -60,406	36 Va. .... -2.9	36 N. Y. .... 5.45
37 N. D. .... 183,019	37 Ohio. .... -7,251	37 Ala. .... -2.9	37 Pa. .... 5.49
38 D. of C. .... 156,676	38 Ala. .... -8,387	38 Okla. .... -3.7	38 Vt. .... 5.85
39 R. I. .... 136,423	39 Wis. .... -10,940	39 Mont. .... -3.7	39 Va. .... 6.44
40 Mont. .... 135,168	40 Va. .... -11,316	40 Mich. .... -4.8	40 W. Va. .... 6.49
41 Idaho. .... 119,077	41 S. C. .... -12,872	41 Ga. .... -4.8	41 N. C. .... 6.99
42 Utah. .... 113,997	42 Miss. .... -12,917	42 Miss. .... -5.2	42 Tenn. .... 7.11
43 N. H. .... 112,183	43 Ark. .... -12,924	43 Fla. .... -5.2	43 La. .... 7.63
44 Ariz. .... 110,525	44 Ore. .... -16,884	44 Ark. .... -5.5	44 Ky. .... 7.90
45 Vt. .... 86,624	45 Ga. .... -17,325	45 S. C. .... -5.6	45 S. C. .... 8.42
46 N. M. .... 84,150	46 Fla. .... -18,176	46 Ore. .... -6.3	46 Ark. .... 8.42
47 Wyo. .... 61,501	47 Okla. .... -20,460	47 N. C. .... -6.3	47 Miss. .... 8.48
48 Del. .... 56,109	48 N. C. .... -30,361	48 Vt. .... -6.9	48 Ga. .... 8.51
49 Nev. .... 29,645	49 Mich. .... -66,893	49 Nev. .... -7.1	49 Ala. .... 9.55
Total. .... 26,523,779	Total. .... 22,336	Total. .... 0.08	Total. .... 4.63

# Motor Vehicle Registrations, 1895-1930

(Figures as of December 31st)

Years	PASSENGER CARS		MOTOR TRUCKS		TOTAL Motor Vehicles	
	Number	% In-crease	Number	% In-crease	Number	% In-crease
1895.....	4	.....	.....	.....	4	.....
1896.....	16	.....	.....	.....	16	.....
1897.....	90	.....	.....	.....	90	.....
1898.....	800	.....	.....	.....	800	.....
1899.....	3,200	.....	.....	.....	3,200	.....
1900.....	8,000	.....	.....	.....	8,000	.....
1901.....	14,800	85%	.....	.....	14,800	85%
1902.....	23,000	55%	.....	.....	23,000	55%
1903.....	32,920	43%	.....	.....	32,920	43%
1904.....	54,590	66%	410	.....	55,000	67%
1905.....	77,400	42%	600	46%	78,000	42%
1906.....	105,900	37%	1,100	83%	107,000	37%
1907.....	140,300	33%	1,700	55%	142,000	33%
1908.....	194,400	38%	3,100	82%	197,500	39%
1909.....	305,950	57%	6,050	95%	312,000	58%
1910.....	458,500	50%	10,000	65%	468,500	50%
1911.....	619,500	35%	20,000	100%	639,500	36%
1912.....	902,600	46%	41,400	107%	944,000	48%
1913.....	1,194,262	32%	63,800	54%	1,258,062	33%
1914.....	1,625,739	36%	85,600	34%	1,711,339	36%
1915.....	2,309,666	42%	136,000	59%	2,445,666	43%
1916.....	3,297,996	43%	215,000	58%	3,512,996	44%
1917.....	4,657,340	42%	326,000	52%	4,983,340	42%
1918.....	5,621,617	21%	525,000	61%	6,146,617	23%
1919.....	6,771,074	21%	794,372	51%	7,565,446	23%
1920.....	8,225,859	22%	1,006,082	27%	9,231,941	22%
1921.....	9,346,195	14%	1,118,520	18%	10,464,715	13%
1922.....	10,864,128	16%	1,375,725	16%	12,239,853	17%
1923.....	13,479,608	24%	1,612,569	17%	15,092,177	23%
1924.....	15,460,649	15%	2,134,724	32%	17,595,373	17%
1925.....	17,496,420	13%	2,440,854	15%	19,937,274	13%
1926.....	19,237,171	10%	2,764,222	13%	22,001,393	10%
1927.....	20,219,224	5%	2,914,019	5%	23,133,243	5%
1928.....	21,379,125	6%	3,113,999	7%	24,493,124	6%
1929.....	23,121,589	8%	3,379,854	8%	26,501,443	8%
1930.....	23,042,840	-1/3%	3,480,939	3%	26,523,779	.08%

## Tax-Exempt Official Cars Not Included in the Official Registrations

Year	U. S. Cars†	State and Local	Total	Year	U. S. Cars†	State and Local	Total
1924...		*44,986	*44,986	1928...	33,179	103,618	136,797
1925...	*17,400	79,529	96,929	1929...	33,179	118,828	152,007
1926...	33,179	102,762	135,941	1930...	33,179	165,760	198,939
1927...	33,179	101,689	134,868				

\*Incomplete. †U. S. Budget Bureau figures.

# Total Motor Vehicle Registrations by States—1925-1930

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1925	1926	1927	1928	1929	1930
Alabama.....	194,580	225,930	243,539	269,519	285,533	277,146
Arizona.....	68,029	73,682	81,047	94,372	109,013	110,525
Arkansas.....	183,589	209,419	206,568	214,931	233,128	220,204
California.....	1,440,541	1,600,475	1,693,195	1,799,890	1,974,341	2,041,356
Colorado.....	240,097	248,613	268,492	284,867	303,489	308,509
Connecticut.....	250,669	263,235	281,521	309,792	328,063	331,026
Delaware.....	40,140	44,834	47,124	51,210	54,960	56,109
Dist. of Columbia.....	103,092	111,497	111,680	126,556	151,450	156,676
Florida.....	286,388	401,562	394,734	352,961	345,977	327,801
Georgia.....	248,093	277,468	300,635	318,856	358,905	341,580
Idaho.....	81,506	94,760	101,336	108,154	118,074	119,077
Illinois.....	1,263,177	1,370,503	1,438,985	1,504,359	1,615,088	1,638,260
Indiana.....	725,410	772,526	813,637	823,806	866,715	875,763
Iowa.....	659,202	698,998	704,203	733,466	784,450	778,386
Kansas.....	457,033	491,276	501,901	533,799	581,223	594,523
Kentucky.....	261,647	281,557	285,621	304,231	332,848	331,002
Louisiana.....	207,000	239,500	255,000	264,293	280,868	275,283
Maine.....	140,499	151,496	163,623	172,638	184,506	186,157
Maryland.....	234,247	252,852	276,863	285,311	319,873	321,702
Massachusetts.....	646,153	690,190	694,107	726,295	817,704	846,206
Michigan.....	989,010	1,118,785	1,154,773	1,249,221	1,395,102	1,328,209
Minnesota.....	569,694	630,285	646,682	673,573	730,399	732,972
Mississippi.....	177,262	205,200	218,043	246,242	250,011	237,094
Missouri.....	604,166	654,554	682,419	712,965	756,680	761,600
Montana.....	94,656	103,958	112,735	126,035	140,387	135,168
Nebraska.....	338,719	366,773	373,912	391,355	418,226	426,229
Nevada.....	21,169	24,014	25,776	27,376	31,915	29,645
New Hampshire.....	81,498	89,001	96,009	102,644	108,880	112,183
New Jersey.....	580,554	651,415	712,396	758,430	832,332	852,850
New Mexico.....	49,111	54,996	59,291	65,737	78,374	84,150
New York.....	1,625,583	1,815,434	1,937,918	2,083,942	2,263,259	2,307,730
North Carolina.....	340,287	385,047	430,499	464,376	483,602	453,241
North Dakota.....	144,972	157,822	160,701	173,525	188,046	183,019
Ohio.....	1,346,400	1,480,246	1,570,734	1,649,699	1,766,614	1,759,363
Oklahoma.....	424,345	499,938	503,126	529,843	570,791	550,331
Oregon.....	216,553	233,568	244,572	248,118	269,007	252,123
Pennsylvania.....	1,330,433	1,455,184	1,554,915	1,642,207	1,733,283	1,763,521
Rhode Island.....	101,756	110,746	118,014	125,698	134,009	136,423
South Carolina.....	168,496	181,189	199,635	216,805	231,274	218,402
South Dakota.....	168,028	168,230	169,552	191,374	204,199	205,172
Tennessee.....	244,626	279,639	294,567	322,137	362,431	368,259
Texas.....	975,083	1,049,869	1,111,407	1,214,297	1,348,107	1,365,896
Utah.....	73,427	85,380	93,974	98,541	112,661	113,997
Vermont.....	69,576	74,063	79,527	86,231	93,030	86,624
Virginia.....	282,650	322,614	337,607	360,545	387,205	375,889
Washington.....	328,442	363,279	384,583	402,875	442,341	446,062
West Virginia.....	217,589	227,836	245,819	251,556	268,888	266,273
Wisconsin.....	594,386	662,282	698,289	742,135	793,502	782,562
Wyoming.....	47,711	49,883	51,955	56,336	60,680	61,501
<b>Totals.....</b>	<b>19,937,274</b>	<b>22,001,393</b>	<b>23,133,241</b>	<b>24,493,124</b>	<b>26,501,443</b>	<b>26,523,779</b>



# Passenger Car

## Registrations by States—1925-1930

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1925	1926	1927	1928	1929	1930
Alabama.....	171,387	197,983	211,633	235,026	247,701	239,170
Arizona.....	59,798	63,294	68,597	86,036	98,327	98,480
Arkansas.....	159,511	179,480	174,524	181,280	193,396	193,218
California.....	1,225,796	*1,384,152	*1,479,411	1,582,477	1,760,308	1,810,969
Colorado.....	221,513	227,708	245,107	260,906	274,988	276,847
Connecticut...	213,486	222,283	238,509	261,091	278,057	279,830
Delaware.....	32,550	*36,246	38,037	41,195	44,728	45,533
Dist. of Columbia	89,790	97,794	98,162	112,550	135,455	139,733
Florida.....	237,435	331,892	332,979	296,691	288,684	274,705
Georgia.....	217,578	241,949	262,630	277,881	310,362	294,461
Idaho.....	73,896	86,339	91,306	96,960	104,398	104,526
Illinois.....	*1,101,943	1,195,897	*1,254,421	*1,314,003	*1,411,753	1,430,676
Indiana.....	630,554	665,126	697,359	706,713	741,366	747,366
Iowa.....	613,412	648,218	649,309	672,447	714,919	706,196
Kansas.....	*409,968	*441,373	447,273	471,897	*507,529	511,384
Kentucky.....	*235,020	252,632	255,892	272,636	298,716	295,161
Louisiana.....	176,000	204,000	216,000	223,445	234,565	230,586
Maine.....	116,229	124,158	132,927	139,460	147,962	148,722
Maryland.....	222,173	240,743	265,768	275,221	†281,034	283,870
Massachusetts..	554,813	593,234	614,359	637,153	719,436	743,288
Michigan.....	*885,524	*969,686	*998,781	*1,084,615	*1,219,158	*1,161,051
Minnesota.....	524,879	559,128	565,401	583,789	630,703	634,902
Mississippi.....	159,134	184,133	196,239	214,754	217,362	203,443
Missouri.....	543,426	587,856	610,303	636,717	*671,237	*670,145
Montana.....	82,135	88,840	94,733	104,231	115,285	109,549
Nebraska.....	*301,716	‡*337,989	‡*342,357	‡358,173	375,946	367,587
Nevada.....	18,069	19,300	20,414	21,733	25,302	23,388
New Hampshire..	72,472	78,400	83,415	88,594	94,900	93,155
New Jersey.....	469,156	531,702	586,510	629,748	698,959	719,696
New Mexico....	47,470	53,173	57,643	63,743	76,000	†70,450
New York.....	1,346,665	1,508,314	1,624,535	1,760,549	1,922,068	1,966,981
North Carolina..	311,384	352,217	390,223	418,864	430,651	397,133
North Dakota...	*133,791	145,571	144,830	151,778	162,092	155,383
Ohio.....	1,179,400	1,295,020	1,374,402	1,450,994	1,560,182	1,555,093
Oklahoma.....	393,047	449,955	437,776	465,550	510,401	490,947
Oregon.....	199,517	214,946	223,582	227,404	247,131	234,766
Pennsylvania...	1,149,074	1,264,453	1,354,548	1,420,957	1,515,875	1,534,834
Rhode Island...	84,337	91,798	98,861	106,155	114,010	116,792
South Carolina..	153,343	163,551	179,571	194,267	205,683	192,141
South Dakota...	*154,141	153,840	153,019	171,067	*181,419	180,195
Tennessee.....	221,712	254,342	269,086	294,305	*329,697	330,436
Texas.....	886,362	944,905	996,397	1,060,028	1,165,150	1,159,139
Utah.....	62,952	72,880	80,730	84,220	95,661	96,128
Vermont.....	64,566	68,524	73,308	78,685	84,471	78,398
Virginia.....	246,950	273,764	288,666	306,911	328,525	318,582
Washington.....	281,452	310,386	326,667	344,977	379,995	382,874
West Virginia...	190,257	201,645	217,689	215,787	228,715	225,900
Wisconsin.....	*528,090	581,994	609,795	646,747	689,447	677,452
Wyoming.....	42,547	44,358	45,539	48,760	51,880	51,579
Totals.....	17,496,420	19,237,171	20,219,224	21,379,125	23,121,589	23,042,840

§, †, ‡See foot note under trucks.

\*Buses not included.



# Motor Truck

## Registration by States—1925-1930

(Figures from U. S. Bureau of Public Roads as of December 31st)

STATES	1925	1926	1927	1928	1929	1930
Alabama.....	23,193	27,947	31,906	34,493	37,832	37,976
Arizona.....	8,231	10,388	12,450	8,336	10,686	12,045
Arkansas.....	24,078	29,939	32,044	33,651	39,732	26,986
California.....	214,745	*216,323	*213,784	217,413	214,033	230,387
Colorado.....	18,584	20,905	23,385	23,961	28,501	31,662
Connecticut.....	37,183	40,952	43,012	48,701	50,006	51,196
Delaware.....	7,590	*8,588	9,087	10,015	10,232	10,576
Dist. of Columbia	13,302	13,703	13,518	14,051	15,995	16,943
Florida.....	48,953	69,670	61,755	56,270	57,293	53,096
Georgia.....	30,515	35,519	38,005	40,975	48,543	47,119
Idaho.....	7,610	8,421	10,030	11,194	13,676	14,551
Illinois.....	*161,234	174,606	*184,564	*190,356	*203,335	207,584
Indiana.....	94,856	107,200	116,278	117,093	125,349	128,397
Iowa.....	45,790	50,780	54,894	61,019	69,531	72,190
Kansas.....	*47,065	*49,903	54,628	61,902	*73,694	*83,139
Kentucky.....	*26,627	28,925	29,729	31,595	34,132	35,841
Louisiana.....	31,000	35,500	39,000	40,848	46,303	44,697
Maine.....	24,270	27,328	30,696	33,178	36,544	37,435
Maryland.....	12,074	12,109	11,095	10,090	*38,839	37,832
Massachusetts....	91,340	96,956	79,748	89,142	98,268	102,918
Michigan.....	*103,486	*149,099	*155,992	*164,606	*175,944	*167,158
Minnesota.....	44,815	71,157	81,281	89,784	99,696	108,070
Mississippi.....	18,128	21,067	21,804	31,488	32,649	33,651
Missouri.....	60,740	66,698	72,116	76,248	*85,443	*91,455
Montana.....	12,521	15,118	18,002	21,804	25,102	25,619
Nebraska.....	*37,003	*328,784	*31,555	*33,182	42,280	58,642
Nevada.....	3,100	4,714	5,362	5,643	6,613	6,257
New Hampshire....	9,026	10,601	12,594	14,050	13,980	19,028
New Jersey.....	111,398	119,713	125,886	128,682	133,373	133,154
New Mexico.....	1,641	1,823	1,648	1,994	2,374	*13,700
New York.....	278,918	307,120	313,383	323,393	341,191	340,749
North Carolina...	28,903	32,830	40,276	45,512	52,951	56,108
North Dakota....	*11,181	12,251	15,871	21,747	25,954	27,636
Ohio.....	167,000	185,226	196,332	198,705	206,432	204,270
Oklahoma.....	31,298	49,983	65,350	64,293	60,390	59,384
Oregon.....	17,036	18,622	20,990	20,714	21,876	17,357
Pennsylvania....	181,359	190,731	200,367	221,250	217,408	218,687
Rhode Island....	17,419	18,948	19,153	19,543	19,999	19,631
South Carolina...	15,153	17,638	20,064	22,538	25,591	26,261
South Dakota....	*13,887	14,390	16,533	20,307	*22,780	24,977
Tennessee.....	22,914	25,297	25,481	27,832	*32,734	37,823
Texas.....	88,721	104,964	115,010	154,269	182,957	206,757
Utah.....	10,475	12,500	13,244	14,321	17,000	17,869
Vermont.....	5,010	5,539	6,219	7,546	8,559	8,226
Virginia.....	35,700	48,850	48,941	53,634	58,680	57,307
Washington.....	46,990	52,893	57,916	57,898	62,346	63,188
West Virginia....	27,332	26,191	28,130	35,769	40,173	40,373
Wisconsin.....	*66,296	80,288	88,494	95,388	104,055	105,110
Wyoming.....	5,164	5,525	6,416	7,576	8,800	9,922
<b>Totals.....</b>	<b>2,440,854</b>	<b>2,764,222</b>	<b>2,914,019</b>	<b>3,113,999</b>	<b>3,379,854</b>	<b>3,480,939</b>

†Big increase due largely to reclassification of trucks which previously had been classed as passenger cars.

‡Includes only trucks and buses weighing over 3,000 lbs.; others included under passenger cars.

§In 1928, 27,089 commercial cars with pneumatic tires were included under passenger cars, practically all of which were classed as trucks in 1929.

\*Includes Buses; other States include buses with passenger cars.

# City Registrations of

(Figures from Local Chambers of

City	Motor Cars	Motor Trucks	Taxis	Buses	Total M. V.	Area Sq. Mi.	Popu- lation
Akron, Ohio.....	62,603	6,753	4515	.....	69,871	47.0	255,040
Albany, N. Y.....	21,000	3,800	.....	490	25,290	19.4	127,412
*Allentown, Pa.....	15,857	3,123	.....	.....	18,980	10.2	92,563
*Altoona, Pa.....	10,929	2,034	.....	.....	12,963	8.8	82,054
Ashville, N. C.....	11,358	1,735	132	.....	13,225	.....	50,193
Atlanta, Ga.....	66,416	9,447	250	25	76,138	34.8	360,691
Atlantic City, N. J.....	10,514	1,883	283	289	12,969	16.4	66,198
Augusta, Ga.....	7,090	.....	.....	.....	7,090	9.7	60,342
©Austin, Texas.....	16,410	2,974	.....	18	19,402	16.0	53,120
©Baltimore, Md.....	105,602	22,476	4,213	100	132,391	79.0	804,874
©Bayonne, N. J.....	72,134	14,415	.....	1,525	88,074	4.5	88,979
©Beaumont, Texas.....	28,506	3,927	21	.....	32,454	10.1	57,732
Berkeley, Cal.....	20,288	.....	.....	.....	20,288	17.9	82,109
*Bethlehem, Pa.....	9,457	1,359	.....	.....	10,816	17.7	57,892
©Binghamton, N. Y.....	31,897	4,591	.....	174	36,662	9.4	76,662
Birmingham, Ala.....	33,760	5,263	.....	136	39,159	50.3	259,678
†Boston, Mass.....	96,432	19,832	.....	.....	116,264	43.9	781,188
Bridgeport, Conn.....	21,258	3,969	48	71	25,346	14.6	146,716
†Brockton, Mass.....	11,367	1,505	.....	.....	12,872	21.0	63,697
©Buffalo, N. Y.....	161,490	21,989	1,379	.....	184,858	42.0	573,076
†Cambridge, Mass.....	114,870	2,663	.....	.....	117,533	6.0	113,643
©Camden, N. J.....	39,931	7,012	.....	467	47,510	8.5	118,700
Canton, Ohio.....	25,000	3,100	42	70	28,212	13.7	104,906
©Cedar Rapids, Ia.....	23,000	2,500	.....	.....	25,500	.....	56,097
Charleston, S. C.....	9,223	.....	.....	.....	9,223	5.2	62,265
Charleston, W. Va.....	13,000	.....	86	60	13,146	8.2	60,408
Charlotte, N. C.....	22,038	3,099	104	.....	25,241	.....	82,675
Chattanooga, Tenn.....	24,788	3,085	.....	250	28,123	27.3	119,798
*Chester, Pa.....	7,785	1,254	.....	.....	9,039	4.7	59,164
Chicago, Ill.....	406,916	56,751	5,250	561	469,478	210.6	3,376,438
©Cleveland, Ohio.....	269,934	27,784	.....	.....	297,718	71.0	900,429
Cincinnati, Ohio.....	86,920	12,127	350	.....	99,397	72.0	451,160
Columbia, S. C.....	10,300	.....	73	13	10,386	9.0	51,581
Columbus, Ohio.....	70,529	8,516	360	.....	79,405	39.3	290,564
Covington, Ky.....	13,269	1,508	30	8	14,815	5.9	65,252
©Dallas, Texas.....	77,113	10,183	.....	146	87,442	45.1	260,475
©Davenport, Ia.....	15,300	2,000	.....	.....	17,300	17.8	60,751
Dayton, Ohio.....	37,265	4,927	.....	.....	42,192	23.0	200,982
Decatur, Ill.....	12,930	2,206	27	14	15,177	9.4	57,510
Denver, Colo.....	79,500	5,251	60	407	85,218	58.7	287,861
©Des Moines, Ia.....	43,886	4,000	.....	.....	47,886	55.9	142,559
Detroit, Mich.....	381,944	41,158	.....	.....	423,102	139.0	1,568,662
Duluth, Minn.....	19,900	2,000	95	41	22,036	67.3	101,463
Durham, N. C.....	10,739	1,546	18	23	12,326	12.8	52,037
©Elizabeth, N. J.....	57,473	8,284	.....	612	66,369	9.7	114,589
©El Paso, Texas.....	22,103	3,890	.....	126	26,119	13.5	102,421
*Erie, Pa.....	23,792	2,925	.....	.....	26,717	20.5	115,967
Evanston, Ill.....	8,000	800	249	29	9,078	8.1	63,338
Evansville, Ind.....	23,500	3,700	49	20	27,269	10.0	102,249
†Fall River, Mass.....	11,951	2,092	.....	.....	14,043	33.0	115,274
©Flint, Mich.....	30,607	3,000	.....	.....	33,607	29.8	156,492
©Fort Wayne, Ind.....	33,000	5,200	60	10	38,270	17.0	114,946
©Fort Worth, Texas.....	48,399	7,543	.....	48	55,990	57.7	163,447
©Fresno, Cal.....	53,598	468	.....	.....	54,066	8.2	52,513
©Galveston, Texas.....	12,616	2,375	.....	8	14,999	7.8	52,938
Gary, Ind.....	18,500	.....	.....	.....	18,500	40.0	100,426
Glendale, Cal.....	21,992	.....	.....	.....	21,992	25.0	62,736
Grand Rapids, Mich.....	52,100	6,500	65	30	58,695	23.4	168,592
Greensboro, N. C.....	15,502	1,841	57	.....	17,400	.....	53,569
Hamilton, Ohio.....	12,500	1,475	22	30	14,027	6.1	52,176

†Area and population in all cases include only the corporate limits of the city, and not the county or suburban area.

\*Pennsylvania Motor List Co. figures as of July 1, 1930.

†The Reuben H. Donnelley Corporation figures as of July 1, 1930.

©—County figures for motor vehicles.

—Includes taxis and buses.

—Includes trucks.

—Includes trucks and buses.

—Includes trucks, taxis, and buses.

—Includes taxis.

—Includes buses.

# Motor Vehicles, 1930

Commerce as of December 31, 1930)

City	Motor Cars	Motor Trucks	Taxis	Buses	Total M. V.	Area Sq. Mi.	Population
Hammond, Ind.....	48,207	6,125	.....	.....	54,332	492.0	64,560
Hamtramck, Mich.....	8,000	750	.....	.....	8,750	2.1	56,268
Harrisburg, Pa.....	16,975	4,106	.....	.....	21,081	10.0	80,339
Hartford, Conn.....	26,309	3,994	.....	.....	30,469	18.0	164,072
Haverhill, Mass.....	48,716	1,152	.....	45	9,868	33.0	48,710
Hoboken, N. J.....	72,134	14,415	.....	1,525	88,074	1.3	59,261
Holyoke, Mass.....	9,306	1,175	.....	.....	10,481	22.7	56,537
Houston, Texas.....	83,032	13,087	.....	43	96,162	40.5	292,352
Huntington, W. Va.....	15,000	1,500	40	85	15,625	16.4	75,572
Indianapolis, Ind.....	97,839	13,351	.....	.....	111,190	54.0	364,161
Irvington, N. J.....	9,100	180	21	63	9,364	3.0	56,733
Jackson, Mich.....	23,000	3,000	35	200	26,235	10.5	55,187
Jacksonville, Fla.....	25,000	4,570	203	.....	29,773	34.6	129,549
Jersey City, N. J.....	29,820	6,372	110	450	36,752	21.0	316,715
Johnstown, Pa.....	11,900	1,100	25	15	13,040	5.7	66,993
Kalamazoo, Mich.....	23,659	3,318	20	10	27,007	9.5	54,786
Kansas City, Kans.....	29,980	4,892	60	10	34,942	.....	121,857
Kansas City, Mo.....	81,171	10,800	.....	.....	91,971	59.6	399,746
Kenosha, Wis.....	8,874	.....	.....	.....	8,874	7.4	50,262
Knoxville, Tenn.....	12,000	2,000	125	50	14,175	26.4	105,802
Lancaster, Pa.....	11,473	2,016	12	4	13,505	4.0	59,949
Lawrence, Mass.....	14,371	2,177	.....	.....	16,548	6.7	85,068
Lincoln, Nebr.....	30,000	1,500	.....	.....	31,500	24.7	75,933
Little Rock, Ark.....	13,200	1,800	48	1	15,049	17.7	81,679
Long Beach, Cal.....	47,817	2,850	.....	.....	50,667	28.8	142,032
Los Angeles, Cal.....	516,106	.....	.....	.....	516,106	442.0	1,238,048
Louisville, Ky.....	29,028	4,950	.....	.....	33,978	39.2	307,745
Lowell, Mass.....	12,657	1,919	.....	.....	14,576	14.1	100,234
Lynn, Mass.....	22,417	2,473	.....	.....	24,890	11.5	102,320
Macon, Ga.....	9,500	1,100	6	4	10,610	17.5	53,829
Madison, Wis.....	13,279	200	29	63	13,571	7.7	57,899
Malden, Mass.....	9,450	1,111	.....	.....	10,561	.....	58,036
Manchester, N. H.....	6,000	3,000	36	12	9,048	33.9	76,834
McKeesport, Pa.....	10,000	1,450	21	12	11,483	3.5	54,632
Medford, Mass.....	9,331	684	.....	.....	10,015	.....	59,714
Memphis, Tenn.....	51,306	6,878	204	.....	58,388	48.5	253,143
Miami, Fla.....	36,500	4,000	225	130	40,855	43.0	110,637
Milwaukee, Wis.....	143,287	17,614	.....	167	161,068	42.0	578,249
Minneapolis, Minn.....	141,000	.....	496	.....	141,496	58.8	464,356
Mobile, Ala.....	14,964	2,904	38	0	17,906	22.1	68,202
Montgomery, Ala.....	10,177	.....	.....	.....	10,177	20.0	66,079
Mount Vernon, N. Y.....	6,785	638	78	42	7,543	4.2	61,499
Nashville, Tenn.....	35,004	4,583	192	.....	39,779	26.4	153,866
Newark, N. J.....	145,536	24,925	.....	3,374	173,835	23.5	442,337
New Bedford, Mass.....	14,975	2,581	.....	.....	17,556	19.3	112,597
New Britain, Conn.....	9,076	1,298	4	23	10,401	13.4	68,128
New Haven, Conn.....	22,210	5,142	135	223	27,710	17.9	162,655
New Rochelle, N. Y.....	119,232	15,991	.....	1,658	136,941	.....	54,000
New York, N. Y.....	596,126	119,576	.....	36,009	751,711	299.0	6,930,446
Newton, Mass.....	21,500	300	50	39	21,889	18.0	65,276
Niagara Falls, N. Y.....	16,000	3,000	.....	.....	19,000	13.9	75,460
Norfolk, Va.....	13,600	2,117	100	125	15,942	50.0	129,710
Oakland, Cal.....	84,300	10,234	206	178	94,918	60.2	284,063
Oklahoma City, Okla.....	61,022	5,511	165	49	66,747	23.0	185,389
Omaha, Nebr.....	43,921	5,942	145	28	50,036	39.0	214,006
Orange, N. J.....	6,100	1,200	25	45	7,370	2.2	35,399
East Orange, N. J.....	6,878	788	21	120	7,807	4.0	68,020
West Orange, N. J.....	2,850	454	50	.....	3,354	12.6	24,324
S. Orange & Maplewood	7,200	675	95	55	8,025	6.0	13,700
Pasadena, Cal.....	37,415	1,568	.....	.....	38,983	18.1	76,086
Passaic, N. J.....	49,235	9,342	.....	406	59,183	3.2	62,959
Paterson, N. J.....	49,235	9,342	.....	406	59,183	8.3	138,513
Pawtucket, R. I.....	15,000	300	40	20	15,360	8.5	77,149

# City Registration in 1930

Continued from preceding page

City	Motor Cars	Motor Trucks	Taxis	Buses	Total M. V.	Area Sq. MI.	Population
Peoria, Ill.	422,000				22,000	11.3	104,969
*Philadelphia, Pa.	191,851	*38,617			230,468	127.0	1,950,961
*Pittsburgh, Pa.	67,471	14,741			82,212	49.1	669,817
Pontiac, Mich.	19,880	2,150	55	20	22,105		64,928
©Port Arthur, Tex.	28,506	3,927		21	32,454		50,902
Portland, Me.	*19,761				19,761	21.5	70,810
Portland, Ore.	84,620	6,138			90,758	66.0	301,815
Providence, R. I.	49,063				49,063	18.3	252,981
Pueblo, Colo.	110,805	855			11,660	12.2	50,096
†Quincy, Mass.	*9,998	*1,119			11,117		71,983
Racine, Wis.	10,000	1,950	30	3	11,983	8.4	67,542
Reading, Pa.	21,000	3,000	60	10	24,070	9.0	111,171
Richmond, Va.	20,687	3,884	*227		24,798	23.9	182,929
Roanoke, Va.	12,000	1,320	39	113	12,472	10.8	69,206
©Rochester, N. Y.	98,212	12,940		*721	111,873	35.9	328,132
Rockford, Ill.	16,675	1,825	31	34	18,565	12.1	85,864
©Sacramento, Cal.	445,137	*2,791			47,928	14.0	93,750
Saginaw, Mich.	27,000	3,500	35	37	30,572	17.0	80,715
©Salt Lake City, Utah	40,000	10,000			50,000	52.3	140,267
San Antonio, Texas	52,720	9,407			62,127	36.0	231,542
San Diego, Cal.	74,486	2,985			77,471	94.0	147,995
San Francisco, Cal.	146,182	9,706	2,250	24	158,162	42.1	634,394
©San Jose, Cal.	53,948	506			54,454	20.0	57,651
©Savannah, Ga.	12,578	1,840			14,418	8.0	85,024
Schenectady, N. Y.	21,125	3,722			24,847	19.3	95,692
*Scranton, Pa.	17,294	*3,569			20,863	20.5	143,433
Seattle, Wash.	90,000	11,010			101,010	104.0	365,583
Shreveport, La.	17,000	3,500	125		20,625	19.3	76,655
Sioux City, Ia.	25,720	2,547	60	20	28,347	45.0	79,183
†Somerville, Mass.	*11,290	*2,162			13,452		103,908
South Bend, Ind.	21,000	3,800	82	29	24,911	19.7	104,193
©Springfield, Ill.	24,641	3,517	40	20	28,218	9.6	71,864
†Springfield, Mass.	*32,046	*4,393			36,439	33.1	149,900
©Springfield, Mo.	17,181	2,394			19,575	13.6	57,527
Springfield, Ohio	14,900	1,500	325	25	16,750	12.0	68,743
Spokane, Wash.	35,816	3,570	60		39,446	41.3	115,514
Stamford, Conn.	11,105	1,593	62	7	12,767		46,346
©St. Joseph, Mo.	17,127	2,195			19,322	13.8	80,935
St. Louis, Mo.	145,849	22,327			168,176	61.0	821,960
St. Paul, Minn.	61,323	9,982	200	50	71,555	55.4	271,606
©Syracuse, N. Y.	65,894	9,499		675	76,068	25.3	209,326
Tacoma, Wash.	25,656	3,346	20	44	29,066	51.2	106,817
©Tampa, Fla.	23,825	3,918	46	33	27,822	26.0	101,161
Terre Haute, Ind.	16,000	2,800	100	100	19,000	10.0	62,810
Toledo, Ohio	90,000	7,000	358	164	97,522	38.0	290,718
©Topeka, Kans.	*21,017	*2,915			23,932	11.0	64,120
©Trenton, N. J.	32,419	7,071		*37	39,864	0	123,356
©Troy, N. Y.	23,381	4,248		*206	27,835	9.3	72,783
©Tulsa, Okla.	50,532	5,313			55,845	22.5	141,258
©Union City, N. J.	72,134	14,415		*1,525	88,074		58,659
Utica, N. Y.	16,000	1,100	200	75	17,375	21.0	101,740
©Waco, Texas	22,337	3,188		11	25,536	12.5	52,848
Washington, D. C.	139,733	16,943			156,676	64.0	486,689
Waterbury, Conn.	12,799	2,254	24	28	15,105	29.0	99,902
Wheeling, W. Va.	*18,000				18,000	11.6	61,659
©Wichita, Kans.	36,673	15,000			41,673	25.0	111,110
*Wilkes-Barre, Pa.	12,016	*2,644			14,660	7.3	86,626
Winston-Salem, N. C.	16,443	2,235	49		18,727		75,274
†Worcester, Mass.	*19,883	*3,983			22,729		195,311
Yonkers, N. Y.	25,000	1,000	50	25	26,075	21.5	134,646
York, Pa.	13,614	2,182	10	20	15,826	3.5	55,254
Youngstown, Ohio	35,000	4,500	35	150	39,685	34.5	170,002

†Area and population in all cases include only the corporate limits of the city, and not the county or suburban area.

\*Pennsylvania Motor List Co. figures as of July 1, 1930.

†The Reuben H. Donnelley Corporation figures as of July 1, 1930.

©—County figures for motor vehicles.

1—Includes taxis and buses.

2—Includes trucks.

3—Includes trucks and buses.

4—Includes trucks, taxis, and buses.

5—Includes taxis.

6—Includes buses.

# New Motor Vehicle Registrations

(Figures from R. L. Polk & Company)

## New Passenger Car Registrations in U. S.

	1925	1926	1927	1928	1929	1930
January.....	164,769	193,748	174,638	136,071	219,760	180,094
February.....	158,817	162,907	179,920	165,537	235,590	211,645
March.....	249,971	276,619	260,134	254,214	377,802	298,824
April.....	350,533	388,024	329,687	332,056	481,675	357,064
May.....	339,794	396,504	317,932	351,459	454,132	345,031
June.....	309,512	319,788	268,066	317,069	386,398	260,861
July.....	319,964	360,700	250,315	324,120	432,503	254,098
August.....	261,307	306,790	245,961	329,674	376,886	203,737
September.....	193,169	267,471	187,678	271,821	304,452	175,286
October.....	247,002	241,094	185,383	284,939	288,697	150,219
November.....	193,922	161,013	134,635	121,736	183,756	93,066
December.....	154,876	153,743	89,189	160,883	138,555	96,054
<b>Total.....</b>	<b>2,943,636</b>	<b>3,228,401</b>	<b>2,623,538</b>	<b>3,139,579</b>	<b>3,880,206</b>	<b>2,625,979</b>

## New Truck Registrations in U. S.

	1925	1926	1927	1928	1929	1930
January.....	21,310	25,048	27,567	16,431	29,900	30,236
February.....	19,973	23,177	28,437	17,510	32,637	31,880
March.....	27,784	34,955	33,539	24,698	46,368	42,199
April.....	33,963	44,846	37,264	30,272	56,299	47,029
May.....	31,835	37,761	33,966	32,468	52,874	43,286
June.....	27,709	33,223	28,495	29,155	45,114	33,531
July.....	33,033	39,191	28,359	31,844	57,943	39,904
August.....	34,247	36,653	28,156	36,753	52,557	33,787
September.....	30,186	34,325	24,436	35,135	46,560	33,933
October.....	32,109	35,034	27,231	40,890	49,899	34,237
November.....	21,705	23,667	18,834	27,491	33,631	22,012
December.....	19,296	18,117	11,681	18,476	23,275	18,665
<b>Total.....</b>	<b>333,150</b>	<b>385,997</b>	<b>327,965</b>	<b>341,123</b>	<b>527,057</b>	<b>410,699</b>

## Total New Passenger Car and Truck Registrations

	1925	1926	1927	1928	1929	1930
January.....	186,079	218,796	202,205	152,502	249,660	210,330
February.....	178,790	186,084	208,357	183,047	268,227	243,525
March.....	277,755	311,574	293,673	278,912	424,170	341,023
April.....	384,496	432,870	366,951	362,328	537,974	404,093
May.....	371,629	434,265	351,898	383,927	507,006	388,317
June.....	337,221	353,011	296,561	346,224	431,512	294,392
July.....	352,997	399,891	278,674	355,964	490,446	294,002
August.....	295,554	343,443	274,117	366,427	429,443	237,524
September.....	223,355	301,796	212,114	306,956	351,012	209,219
October.....	279,111	276,128	212,614	325,829	338,596	184,456
November.....	215,627	184,680	153,469	239,227	217,387	115,078
December.....	174,172	171,860	100,870	179,359	161,830	114,719
<b>Total.....</b>	<b>3,276,786</b>	<b>3,614,398</b>	<b>2,951,503</b>	<b>3,480,702</b>	<b>4,407,263</b>	<b>3,036,678</b>

# 35,603,000 Motor

## Increase of 1.8% in Year

(Figures as of December 31, 1930 from Automotive Division.)

Country	Passenger Cars	Buses	Trucks	Total Registration	Population per Motor Vehicle
†Aden.....	542	78	46	666	82
†Afghanistan.....	338	.....	112	450	14,067
†Alaska.....	1,819	.....	1,183	3,002	19
†Albania.....	700	4	500	1,204	833
Algeria.....	42,000	1,550	6,700	50,250	119
*Angola.....	†2,500	.....	.....	2,500	992
Antigua, Pres.....	233	3	34	270	110
*Arabia (exc. Aden).....	504	.....	238	742	9,433
Argentina.....	294,764	2,807	68,753	366,324	29
Australia.....	442,151	.....	124,869	567,020	11
*Austria.....	22,800	.....	17,600	40,400	165
Azores.....	556	52	39	647	374
Bahamas.....	906	18	251	1,175	46
Barbados.....	1,355	135	195	1,685	117
*Belgian Congo.....	2,996	.....	2,947	5,943	52
Belgium.....	102,319	1,461	55,206	158,986	50
Bermuda.....	1	.....	51	52	423
Bolivia.....	1,220	129	866	2,215	1,332
*Borneo, Brit. North.....	70	.....	30	100	2,578
Brazil.....	132,550	1,500	65,520	199,570	201
British East Africa:					
Kenya.....	7,302	300	2,375	9,977	254
Tanganyika.....	2,127	250	2,595	4,972	829
Uganda.....	1,702	400	2,152	4,254	765
Zanzibar.....	132	15	103	250	863
British Honduras.....	174	.....	62	236	192
British South Africa:					
Nyasaland.....	730	28	510	1,268	927
Rhodesia, North.....	900	25	375	1,300	888
Rhodesia, South.....	9,600	180	1,550	11,330	82
British South West Africa.....	2,500	12	993	3,505	64
British West Africa:					
Gambia.....	86	4	170	260	809
Gold Coast.....	2,358	13	4,987	7,358	.....
Nigeria.....	3,100	1,845	3,133	8,078	2,306
Sierra Leone.....	495	12	351	858	1,796
Bulgaria.....	2,524	845	318	3,687	1,517
Canada.....	1,055,796	1,625	166,745	1,224,166	8
Ceylon.....	15,119	2,629	2,979	20,727	262
Chile.....	24,138	1,475	10,632	36,245	120
*China.....	23,000	.....	12,500	35,500	11,400
†Chosen.....	992	1,729	780	3,501	5,575
*Colombia.....	8,750	1,250	3,750	13,750	579
Cook Islands.....	70	.....	57	127	.....
Costa Rica.....	1,283	105	476	1,864	252
*Cuba.....	29,441	1,889	14,874	46,204	78
Cyprus.....	†1,558	.....	.....	1,558	208
Czechoslovakia.....	53,000	3,000	23,006	79,006	183
Danzig.....	1,165	52	693	1,910	202
*Denmark.....	78,541	1,163	30,620	110,324	31
Dominica.....	33	4	10	47	.....
Dominican Re.....	2,810	.....	751	3,561	252
Ecuador.....	1,158	147	676	1,981	757
*Egypt.....	26,792	1,218	4,617	32,627	434
†Eritrea.....	193	30	123	346	1,172

\*Figures from the American Automobile's "1931 World Census." †December 31, 1929.

†For world total by years, see page 31. †Includes commercial vehicles.

# Vehicles in World

## 74.4% of Total in United States

Department of Commerce, and from The American Automobile)

Country	Passenger Cars	Buses	Trucks	Total Registration	Population per Motor Vehicle
Estonia.....	1,785	187	1,123	3,095	359
Ethiopia.....	572	.....	101	673	14,858
*Faroe Islands.....	18	17	32	67	318
Fiji Islands.....	987	80	301	1,368	125
Finland.....	24,040	1,419	10,775	36,234	99
France.....	1,080,000	34,400	345,250	1,459,650	28
†French Equa. Africa.....	344	.....	566	910	3,127
†French Indo China.....	14,935	2,149	1,511	18,595	1,067
French West Africa.....	3,864	.....	5,797	9,661	1,401
Germany.....	505,400	12,000	161,900	679,300	92
Gibraltar.....	507	43	101	651	28
Greece.....	13,500	1,000	4,750	19,250	322
†Grenada.....	308	49	40	397	.....
Guiana, British.....	1,346	179	140	1,665	185
†Guiana, French.....	65	.....	35	100	442
†Guiana, Surinam.....	170	.....	25	195	696
Guam.....	197	4	207	408	45
*Guadeloupe.....	1,150	125	130	1,405	166
*Guatemala.....	†2,379	.....	.....	2,379	890
Haiti.....	2,384	277	371	3,032	758
Hawaii.....	37,080	22	10,744	47,846	7
Honduras.....	737	81	289	1,107	699
*Hong Kong.....	1,783	174	493	2,450	439
Hungary.....	13,404	679	5,250	19,333	445
*Iceland.....	475	.....	751	1,226	84
India, British.....	117,517	25,924	31,009	174,450	1,415
India, French.....	200	35	2	237	1,225
India, Portuguese.....	393	170	108	671	.....
*Indo-China.....	16,616	2,372	1,459	20,447	970
*Iraq.....	1,871	99	574	2,544	1,179
Irish Free State.....	39,000	800	8,600	48,400	61
Italy.....	214,330	10,260	68,625	293,215	140
Jamaica.....	5,838	67	1,709	7,614	112
Japan.....	56,087	8,937	30,695	95,719	658
Latvia.....	2,126	340	1,469	3,935	481
Liberia.....	122	.....	150	272	5,515
Libya.....	319	232	668	1,219	468
Lithuania.....	1,400	350	500	2,250	1,030
Luxemburg.....	5,965	125	2,801	8,891	32
*Madagascar.....	2,100	.....	800	2,900	1,249
Madeira Islands.....	735	140	80	955	109
Malaya, British.....	31,538	2,500	7,614	41,652	60
Malta.....	1,502	557	254	2,313	92
Martinique.....	161	.....	61	222	3,847
Mauritius.....	2,175	131	370	2,676	143
Mexico.....	59,501	4,800	16,500	80,801	203
Monaco.....	1,490	50	150	1,690	15
Montserrat.....	41	4	6	51	.....
†Morocco, French.....	11,316	.....	4,639	15,955	265
Morocco, Int.....	384	58	192	634	.....
Morocco, Spanish.....	1,723	278	1,482	3,483	213
Netherlands.....	72,000	3,520	43,215	118,735	64
Netherland East Indies.....	63,735	6,538	14,510	84,783	584
†Netherland West Indies.....	1,221	16	765	2,002	.....
Newfoundland.....	2,506	11	510	3,027	87

\*Figures from the American Automobile "1931 World Census." †December 31, 1929.

§For world total by years, see page 31. †Includes commercial vehicles.

(Continued on following page)

# 35,603,000 Motor Vehicles in World

(Continued from preceding page)

Country	Passenger Cars	Buses	Trucks	Total Registration	Population per Motor Vehicle
†New Caledonia.....	800	10	50	860	55
New Hebrides.....	15	.....	60	75	800
New Zealand.....	154,674	1,238	33,703	189,615	7
Nicaragua.....	950	20	200	1,170	545
Norway.....	26,922	1,904	17,637	46,463	57
*Palestine.....	1,829	.....	694	2,523	323
*Panama and Canal Zone.....	†8,750	.....	.....	8,750	53
Papua.....	71	.....	123	194	1,417
Paraguay.....	700	.....	900	1,800	440
Persia.....	1,818	208	1,282	3,308	3,002
Peru.....	8,511	503	5,357	14,371	383
Philippine Islands.....	22,821	2,800	11,428	37,049	326
Poland.....	27,527	4,293	9,440	41,260	732
Porto Rico.....	10,421	385	2,858	13,664	112
Portugal.....	24,842	500	5,215	30,557	184
Portuguese East Africa.....	1,300	25	975	2,300	1,375
Reunion.....	807	7	135	949	181
Rumania.....	27,000	5,200	4,800	37,000	470
†Russia.....	12,590	1,830	16,490	30,910	5,128
†St. Christopher-Nevis.....	160	1	89	250	.....
St. Lucia.....	102	2	36	140	.....
St. Pierre and Miquelon.....	49	.....	7	122	32
St. Vincent.....	38	2	73	47	.....
*Salvador.....	1,829	110	309	2,248	715
Samoa, American.....	25	8	25	58	173
Samoa, Western.....	211	18	151	380	105
Seychelles Islands.....	37	.....	8	45	.....
Society Islands.....	451	.....	63	514	61
Solomon Islands.....	.....	.....	20	20	7,530
Somaliland, British.....	23	33	.....	56	6,196
†Somaliland, French.....	124	.....	28	152	564
†Somaliland, Italian.....	102	.....	326	428	1,518
*Spain.....	133,305	.....	56,345	189,650	120
†Sudan, Anglo Egyptian.....	1,441	.....	1,379	2,820	1,940
Sweden.....	103,893	2,837	38,543	145,273	42
Switzerland.....	63,725	825	16,495	81,045	49
*Syria.....	7,600	.....	2,000	9,600	310
Taiwan.....	950	950	750	2,650	1,510
Tonga.....	135	10	84	229	109
*Trinidad and Tobago.....	4,750	.....	1,500	6,250	63
Tunisia.....	9,900	135	1,465	11,500	187
Turkey.....	2,900	2,700	3,200	8,800	1,550
United Kingdom:					
England.....	971,986	44,115	292,171	1,308,272	27
Wales.....	46,301	3,225	14,651	64,177	34
Channel Islands.....	15,690	.....	.....	5,690	15
*Northern Ireland.....	20,284	1,052	6,392	27,728	45
†Scotland.....	83,141	5,312	30,019	118,472	41
Union of South Africa.....	132,000	1,400	16,000	149,400	46
United States.....	22,951,847	95,400	3,476,532	26,523,779	4½
*Uruguay.....	37,017	1,071	7,509	45,597	40
*Venezuela.....	†15,000	.....	.....	15,000	201
Virgin Islands.....	486	7	116	609	38
*Yugoslavia.....	10,000	.....	2,800	12,800	1,038
<b>†WORLD TOTAL.....</b>	<b>29,766,985</b>	<b>327,517</b>	<b>5,508,674</b>	<b>35,603,176</b>	<b>56.1</b>

\*Figures from the American Automobile's "1931 World Census." †December 31, 1929.

†Includes commercial vehicles. §For world total by years, see page 31.





## 1930 Export Summary

Foreign sales of motor vehicles of U. S. design.. 559,907

	Passenger Cars	Trucks	Total
U. S. Exports . . . .	159,464	85,701	245,165
Foreign assemblies	88,300	72,250	160,550
Canadian Output.	125,442	28,750	154,192

Total . . . . .	373,206	186,701	559,907
-----------------	---------	---------	---------

Percent of American production sold outside the United States (Including sales in Canada):

Cars . . . . .	12.8%
Trucks . . . . .	31.0%
Total . . . . .	16.0%

Total *exports* of motor vehicles from United States and Canada (excluding sales in Canada) 450,268

Value of United States and Canadian exports (including tires, parts and accessories) . . . . . \$349,837,884

	Number Cars and Trucks	Value including tires, parts
United States . . . .	405,715	\$315,076,971
Canada . . . . .	44,553	34,760,913

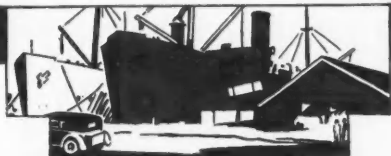
Percent of United States and Canadian production exported (excluding sales in Canada) . . . . 12.8%

Rank among United States exports of manufactured products . . . . . Third

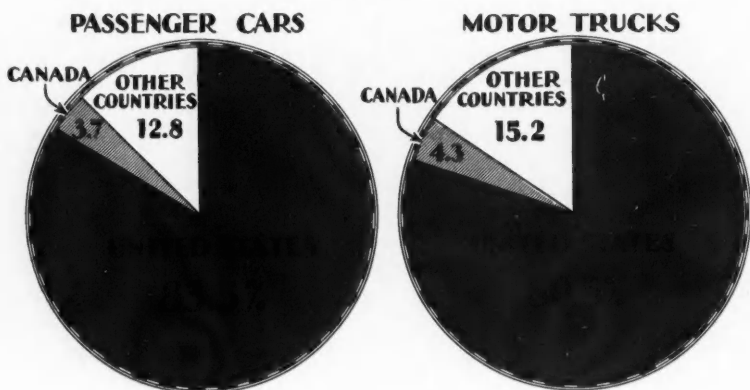
Leading export market (excepting Canada):

Passenger Cars . . . . .	Belgium
Motor Trucks . . . . .	Belgium

Motor vehicles imported into U. S. A . . . . . 709



## American Motor Output 87% of World 1930



## World Production of Motor Vehicles

Country	1925	1926	1927	1928	1929	1930
Austria.....	4,900	5,290	8,700	11,930	8,900	2,970
Belgium.....	5,639	6,000	6,500	8,150	7,000	5,500
Canada.....	161,970	204,727	179,054	242,382	263,295	154,192
Czechoslovakia....	5,000	7,000	10,200	13,150	14,740	16,900
Denmark.....	75	200	190	165	150	200
England.....	167,000	198,699	211,780	211,877	238,805	170,000
France.....	177,000	193,315	191,300	207,519	263,660	220,000
Germany.....	49,384	37,169	96,640	89,950	70,500	66,500
Hungary.....	398	388	382	460	757	300
Italy.....	39,573	54,760	64,559	55,010	54,100	43,650
Japan.....	.....	.....	205	470	475	*
Poland.....	.....	.....	.....	320	320	350
Russia.....	.....	.....	510	799	1,706	*
Spain.....	473	1,050	585	325	330	300
Sweden.....	270	410	1,250	1,362	1,400	2,200
Switzerland.....	450	1,046	1,585	1,700	3,000	1,625
United States†....	4,265,830	4,300,934	3,401,326	4,358,759	5,358,420	3,355,986
<b>World Total.....</b>	<b>4,877,962</b>	<b>5,010,988</b>	<b>4,174,766</b>	<b>5,204,328</b>	<b>6,287,558</b>	<b>4,040,673</b>

†Including motor vehicles exported as "parts for assembly."

\*Not yet available.

# Exports of Motor Vehicles from Producing Countries

(Figures from Bureau of Foreign and Domestic Commerce)

Country	1925	1926	1927	1928	1929	1930
Austria.....	2,120	1,321	1,621	*3,563	*2,858	*1,474
Belgium.....	1,929	3,075	2,870	3,366	2,723	933
Canada.....	74,151	74,324	57,414	79,388	101,711	44,553
Czechoslovakia....	456	460	932	1,518	1,389	1,497
England.....	29,052	33,116	35,692	32,540	42,011	29,753
France.....	57,455	59,770	52,053	44,106	49,025	31,158
Germany.....	2,602	2,202	4,062	7,991	7,784	5,180
Hungary.....	31	6	15	28	0	0
Italy.....	29,061	34,191	33,312	28,280	23,689	23,598
Netherlands.....	419	326	316	287	†	†
Spain.....	156	119	107	63	†	†
Sweden.....					75	155
Switzerland.....	238	146	149	341	170	160
§ United States....	428,687	392,893	466,384	582,731	733,816	405,716

†Not available.

\*Includes chassis.

‡Including units exported as "parts for assembly."

## Automobiles Third in Exports of Manufactured Products

(Figures from Bureau of Foreign and Domestic Commerce)

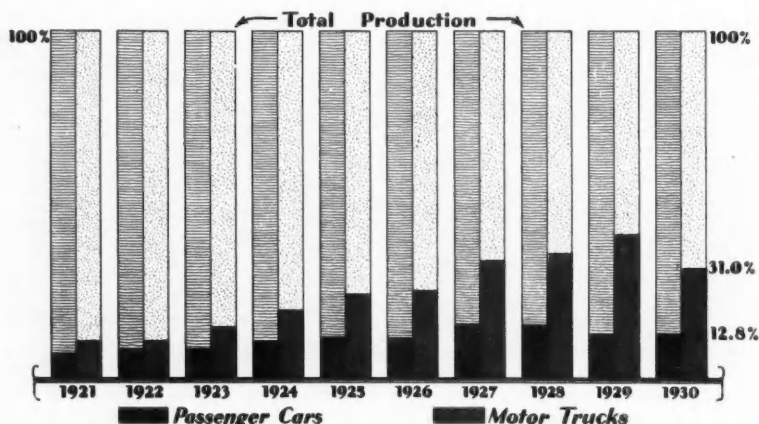
1. Machinery.....	\$520,639,000
2. Refined Petroleum Products.....	462,090,000
3. Automotive Products.....	274,490,073
4. Packing House Products.....	153,513,000
5. Iron and Steel Mill Products.....	138,893,000
6. Refined Copper Products.....	105,324,000
7. Cotton Mill Products.....	88,688,000
8. Lumber Mill Products.....	78,404,000
9. Wheat Flour.....	69,401,000
10. Rubber Products.....	55,940,000

## Motor Vehicle Imports 1919—1930

(Figures from Bureau of Foreign and Domestic Commerce)

Calendar Year	Passenger Cars and Motor Trucks No.	Value	Bodies and Parts Value	Calendar Year	Passenger Cars and Motor Trucks No.	Value	Bodies and Parts Value
1919...	117	\$123,025	\$168,073	1925...	678	\$1,079,560	\$778,325
1920...	926	1,026,518	319,728	1926...	813	1,352,984	727,326
1921...	522	876,163	216,058	1927...	635	1,218,938	1,146,265
1922...	483	802,285	206,675	1928...	566	1,201,323	1,597,729
1923...	853	884,125	1,569,893	1929...	750	1,190,140	2,251,603
1924...	604	841,524	897,808	1930...	709	875,146	982,597

## Percent of American Production Sold Outside United States



Year	Passenger Cars	Motor Trucks	Total	Year	Passenger Cars	Motor Trucks	Total
1921...	7.2%	10.5%	7.5%	1926...	11.6%	24.9%	13.3%
1922...	8.4%	10.6%	8.7%	1927...	15.5%	33.5%	18.0%
1923...	8.4%	15.4%	9.1%	1928...	15.3%	35.6%	18.0%
1924...	10.4%	19.1%	11.5%	1929...	13.7%	41.0%	17.8%
1925...	11.8%	23.9%	13.4%	1930...	12.8%	31.0%	16.0%

## Sales of American Motor Vehicles Outside United States

Year	PASSENGER CARS			MOTOR TRUCKS			Total Motor Vehicles
	U. S. Exports Inc. For. Assemblies	Canadian Output	Total Cars	U. S. Exports Inc. For. Assemblies	Canadian Output	Total Trucks	
1921...	48,478	61,098	109,576	12,179	5,148	17,327	126,903
1922...	104,999	94,904	199,903	22,073	7,149	29,222	229,125
1923...	186,448	129,228	315,676	48,629	17,210	65,839	381,515
1924...	227,726	117,765	345,491	65,400	17,481	82,881	428,372
1925...	321,893	135,573	457,466	106,774	26,397	133,171	590,637
1926...	294,119	164,856	458,975	98,774	39,871	138,645	597,620
1927...	332,036	146,827	478,863	134,348	32,227	166,575	645,438
1928...	418,900	196,741	615,641	163,831	45,641	209,472	825,113
1929...	451,095	207,498	658,593	282,721	55,797	338,518	997,111
1930...	247,764	125,442	373,206	157,951	28,750	186,701	559,907

# Total Exports from U. S. and Canada

Including Exports of "Parts for Assembly"

	PASSENGER CARS			MOTOR TRUCKS			GRAND TOTAL
	U. S. and Canada	Foreign *Assemblies	Total	U. S. and Canada	Foreign *Assemblies	Total	
1921...	42,827	14,956	57,783	9,260	4,340	13,600	71,383
1922...	105,189	35,204	140,393	14,397	10,240	24,637	165,030
1923...	190,744	53,185	243,929	38,268	22,800	61,068	304,997
1924...	203,002	68,607	271,609	41,232	36,940	78,172	349,781
1925...	310,129	69,769	379,898	76,436	46,520	122,956	502,854
1926...	299,071	48,676	347,747	88,870	30,600	119,470	467,217
1927...	325,988	45,948	371,936	124,545	27,317	151,862	523,798
1928...	431,160	43,472	464,632	163,990	23,497	187,487	662,119
1929...	412,831	103,127	515,958	235,082	84,487	319,569	835,527
1930...	188,305	88,300	276,605	101,413	72,250	173,663	450,268

\*Estimated foreign assemblies from shipments of "parts for assembly" overseas. Parts were made in United States factories, but not included in the official export figures showing the number of units shipped abroad. These are not the total foreign assemblies since a large percentage of the "parts for assembly" were declared as complete units on the export declaration and hence included in the official government export statement.

## Value of Automotive Exports—U. S. and Canada

	1925	1926	1927	1928	1929	1930
<b>Passenger Cars</b>						
United States.....	\$190,864,961	\$182,094,181	\$214,271,418	\$269,393,369	\$239,626,014	\$110,355,978
Canada.....	27,794,884	25,779,659	22,156,871	25,224,014	29,824,433	12,737,784
<b>Motor Trucks</b>						
United States.....	39,291,205	48,577,618	71,819,011	93,223,014	113,063,232	56,924,119
Canada.....	5,250,002	6,957,242	6,272,126	8,652,301	14,831,006	6,060,999
<b>Parts and Accessories</b>						
United States.....	78,563,588	79,562,120	89,651,904	118,255,604	170,952,592	114,688,185
Canada.....	6,372,728	5,485,486	3,434,465	2,152,166	2,350,232	1,587,571
<b>Tires, Rubber</b>						
United States.....	28,313,578	34,830,467	44,493,981	41,961,767	42,179,505	33,108,689
Canada.....	11,676,045	17,524,940	20,495,892	19,703,014	18,807,717	14,374,559
<b>Total</b>						
United States.....	\$337,033,332	\$345,064,386	\$420,236,314	\$522,833,754	\$565,821,343	\$315,076,971
Canada.....	51,093,659	55,747,327	52,359,354	55,731,495	65,813,388	34,760,913

**Grand Total...** \$388,126,991 \$400,811,713 \$472,595,668 \$578,565,249 \$631,634,731 \$349,837,884

\*Parts shipped to Canada for assembly have been deducted, but other "parts for assembly" have been included.

## World Motor Vehicle Registrations by Years†

Dec. 31	Outside United States	% Gain Yearly	United States	% Gain Yearly	World Total	% Gain Yearly	U. S. % of World
1916...	719,246	..	3,512,996	44	4,232,242	..	83
1919...	1,286,948	..	7,565,446	23	8,852,394	..	85
1920...	1,710,983	33	9,231,941	22	10,942,924	24	84
1921...	2,190,609	28	10,464,715	13	12,655,324	15	83
1922...	2,433,737	11	12,239,853	17	14,673,590	16	83
1923...	2,931,407	21	15,092,177	23	18,023,584	23	84
1924...	3,715,735	27	17,595,373	17	21,311,108	18	83
1925...	4,537,973	22	19,937,274	13	24,475,247	15	81
1926...	5,512,933	22	22,001,393	10	27,514,326	12	80
1927...	6,425,117	17	23,133,243	5	29,558,360	7	79
1928...	7,398,663	15	24,493,124	6	31,891,787	8	77
1929...	8,473,948	15	26,501,443	8	34,975,391	10	76
1930...	9,079,397	7	26,523,779	.08	35,603,176	1.8	74

†For tabulation by countries in 1930 see pages 24-26.

# Automotive Freight on Railroads, 1930

3,330,000 Carloads—\$478,466,000 Revenues

## AUTOMOTIVE PROPORTION OF ALL CARLOAD TRAFFIC

Products of Manufactures and Miscellaneous..... Products of Forest and Mines..... All other Carload Traffic..... Total carload traffic originated	All Carload Traffic (I. C. C. Statistics)	Of which Auto Mfg. and Use and Highway Building Products: (See table following)	
		Carloads	Per Cent
	10,289,214	2,467,383	24.0%
	14,813,278	863,200	5.8%
	6,376,579		
	31,479,071	3,330,583	10.6%

## AUTOMOTIVE FREIGHT EXCEEDS 3,330,000 CARLOADS

Automotive Freight Carloads*		Automotive Freight Carloads*	
Motor vehicles, parts, tires.....	618,483	Crude rubber.....	13,000
Gasoline.....	1,330,000	Asphalt for roads.....	43,000
Iron and steel.....	132,700	Brick, vitrified.....	50,000
Coal.....	66,000	Cement for roads, bridges.....	236,000
Crude petroleum.....	60,000	Gravel, sand, stone for roads.....	650,000
Lubricating oil.....	50,000	Miscellaneous, such as non-ferrous metals, paints, upholstery materials	50,000
Lumber.....	31,200		

Total Automotive Freight Carloads..... 3,330,383

\*Partly estimated by National Automobile Chamber of Commerce.

## SHIPMENTS OF ASSEMBLED PASSENGER CARS AND MOTOR TRUCKS

From Factories and Assembling Plants in United States, including Exports

Year	Railroad Freight Carloads		Machines Shipped by Boat	Year	Railroad Freight Carloads		Machines Shipped by Boat
	Delivered of Machines	Overland			Delivered of Machines	Overland	
1930.....	423,486	1,412,450	99,414	1926.....	750,265	1,066,819	110,770
1929.....	733,631	1,958,738	199,576	1925.....	680,165	1,120,780	103,158
1928.....	733,982	1,222,992	179,173	1924.....	579,745	894,825	55,499
1927.....	639,630	738,839	124,369	1923.....	604,080	1,142,315	81,587

## AUTOMOBILE FREIGHT ON STEAMSHIPS

The major tonnage of important steamship lines consists of automobiles and parts en route to foreign countries.

Shipments on coastwise and Great Lakes steamers number 99,414 vehicles.

## Railroad Shipments of Automobiles, 1930

Automobiles, Auto Trucks and Parts, Including Tires

(From Railroad Commodity Reports)

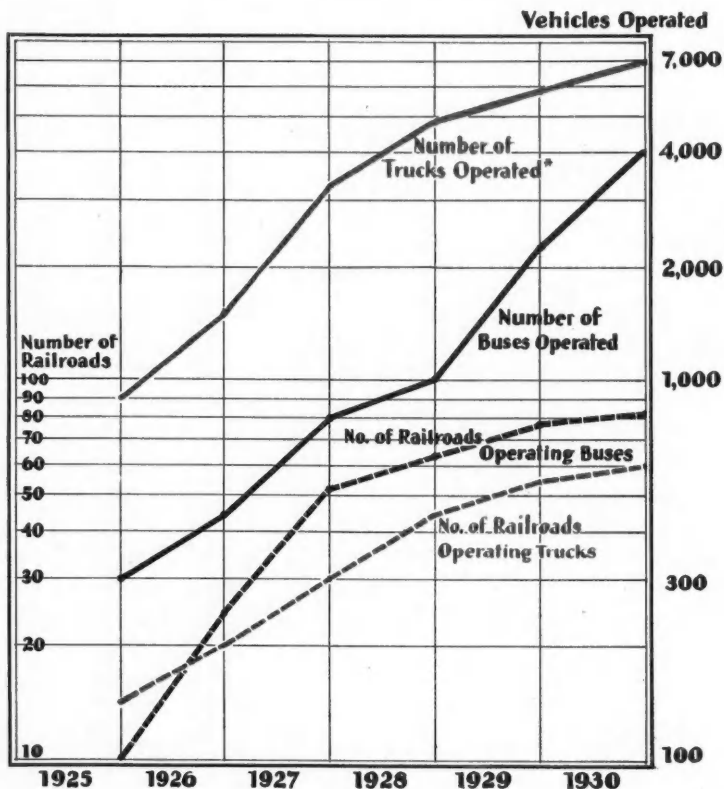
EASTERN LINES	Carloads Originated	Carloads received from Connections	Total Carloads Carried	Revenue
N. Y. C. Lines—(B. & A. R. R.—C. C. C. & St. L. Lines—M. C. C. R. R.—N. Y. C. R. R.—P. & L. E. R. R.).....	146,638	58,111	204,749	\$15,239,557
G. T. W. R. R.....	70,795	6,988	77,783	3,821,257
D. T. & I. R. R.....	63,906	6,356	70,262	3,164,551
P. M. R. R.....	45,965	5,433	51,398	3,276,320
Penna. R. R.....	31,266	36,399	67,665	5,812,594
Erie R. R.....	26,801	25,153	51,954	3,080,713
Chicago & Erie R. R.....	254	5,493	5,747	240,722
B. & O. R. R.....	15,437	28,237	43,674	3,206,922
Wabash R. R.....	13,757	36,325	70,082	4,962,059
Ann Arbor R. R.....	212	4,543	4,755	283,389
A. C. & Y. Ry.....	8,455	279	8,734	122,469
Reading Co.....	5,510	24,847	30,357	1,018,821
C. R. R. of N. J.....	1,715	17,570	19,285	572,383
N. & W. Ry.....	4,534	7,149	11,683	1,096,351
D. L. & W. R. R.....	4,344	30,536	34,880	2,255,771
B. & M. R. R.....	4,343	17,635	21,978	1,109,871

(Continued on following page)

	Carloads Originated	Carloads received from Connections	Total Carloads Carried	Revenue
<b>EASTERN LINES (Continued)</b>				
N. Y. C. & St. L. R. R.	4,129	19,140	23,269	1,365,369
D. & T. S. L. R. R.	3,610	11,350	14,960	264,015
C. & O. Ry.	1,947	11,737	13,684	931,205
C. & E. I. Ry.	832	6,016	6,848	406,535
C. I. & L. Ry.	1,297	3,508	4,805	209,724
B. & L. E. R. R.	771	154	925	23,972
Lehigh Valley R. R.	726	32,892	33,618	2,320,124
N. Y., N. H. & H. R. R.	686	16,908	17,594	871,216
Western Maryland Ry.	594	3,077	3,671	152,680
D. & H. R. R.	523	14,340	14,863	383,708
W. & L. E. Ry.	499	9,944	10,443	302,352
B. R. & P. Ry.	375	3,667	4,042	140,481
Miscellaneous	535	57,601	58,136	1,457,954
<b>Total Eastern Lines</b>	<b>461,516</b>	<b>521,388</b>	<b>982,904</b>	<b>\$58,092,425</b>
<b>SOUTHERN LINES</b>				
Southern Ry.	12,334	11,589	23,923	\$1,701,627
C. N. O. & T. P. Ry.	1,894	9,746	11,640	1,168,829
M. & O. R. R.	1,049	1,715	2,764	281,509
A. G. S. R. R.	198	1,766	1,964	104,840
N. O. & N. E. R. R.	184	1,457	1,641	81,566
G. S. & F. Ry.	11	3,514	3,525	219,068
Ill. Cent. R. R.	6,289	22,991	29,280	2,808,360
Y. & M. V. R. R.	854	2,282	3,136	270,481
C. of Ga. Ry.	399	2,472	2,871	178,426
L. & N. R. Ry.	4,309	4,639	11,948	1,354,522
S. A. L. Ry.	1,286	4,712	5,998	524,782
A. C. L. R. R.	456	5,961	6,417	515,247
Norfolk Southern R. R.	266	1,335	1,601	129,873
N. O. G. N. R. R.	185	801	986	46,379
N. C. & St. L. Ry.	93	2,689	2,782	203,294
Clinchfield R. R.		4,022	4,022	222,087
Miscellaneous	472	7,984	8,456	514,546
<b>Total Southern Lines</b>	<b>30,279</b>	<b>92,675</b>	<b>122,954</b>	<b>\$10,325,436</b>
<b>WESTERN LINES</b>				
C. & N. W. Ry.	21,872	16,091	37,963	\$2,390,122
C. St. P., M. & O. Ry.	1,027	6,429	7,456	427,682
Mo. Pac. R. R.	21,567	15,236	36,803	3,566,835
St. Louis, Brownsville & M. Ry.	662	913	1,575	217,860
Int. Gt. Northern Ry.	584	4,514	5,098	526,839
Louisiana & Arkansas Ry.	370	1,597	1,967	132,876
N. O., T. & M. Ry.	225	832	1,057	41,431
T. & P. Ry.	1,800	9,645	11,445	980,125
C. M., St. P. & P. R. R.	20,437	15,880	36,317	3,607,871
So. Pac. Co. (Pac. Lines)	14,381	17,353	31,734	5,507,024
T. & N. O. R. R.	1,088	10,023	11,111	1,398,751
St. L., S. F. Ry.	9,024	5,571	14,595	1,653,804
St. L., S. F. & Texas Ry.	25	1,773	1,798	74,119
C. B. & Q. R. R.	5,315	11,133	16,449	2,198,910
Cal. Southern Ry.	747	701	1,448	101,829
Union Pacific R. R.	2,289	22,625	24,914	4,767,810
L. A. & S. L. R. R.	1,631	5,512	7,143	1,398,308
O. S. L. R. R.	46	11,835	11,881	978,169
O. W. R. R. & Nav. Co.	484	2,850	3,334	412,907
St. J. & G. I. Ry.	1	5,616	5,617	94,906
C. R. I. & P. Ry.	4,258	15,331	19,589	2,518,130
C. R. I. & G. Ry.	130	5,608	5,738	160,384
A. T. & S. Fe Ry.	3,804	18,357	22,161	5,509,025
G. C. & S. Fe Ry.	220	1,500	1,720	154,869
P. & S. F. Ry.	12	9,719	9,731	267,766
St. L. S. W. Ry.	3,592	4,904	8,496	1,053,174
St. L. W. Ry. of Texas	21	6,368	6,389	314,591
M. K. T. R. R.	2,739	4,924	7,663	1,396,092
Gt. Northern Ry.	1,588	7,024	8,612	2,098,159
N. P. Ry.	1,458	6,706	8,164	1,965,808
Chicago & Alton R. R.	1,211	6,977	8,188	515,010
M. St. P. & S. S. M. Ry.	1,034	3,420	4,454	455,519
Kansas City Southern Ry.	691	5,500	6,191	477,798
D. R. G. W. R. R.	710	6,104	6,814	894,757
Western Pac. R. R.	546	6,898	7,444	820,221
C. G. W. R. R.	299	7,923	8,222	625,705
M. & St. L. R. R.	176	3,545	3,721	208,848
S. P. & S. Ry.	173	2,610	2,783	258,648
Green Bay & Western R. R.	58	3,118	3,176	156,644
Miscellaneous	397	22,914	23,311	1,497,256
<b>Total Western Lines</b>	<b>126,692</b>	<b>312,576</b>	<b>439,268</b>	<b>\$51,826,582</b>
<b>Total U. S. Autos, Trucks and Parts including Tires.</b>	<b>618,487</b>			<b>\$120,244,443</b>

# Rail Use of Motor Transport Increases

(Figures from "Railway Age")



	1925	1926	1927	1928	1929	1930
Number of Railways Operating Buses.....	10	25	52	64	78	81
Number of Buses Operated.....	300	450	800	1,047	2,389	4,000
Bus Route Mileage.....	2,000	6,300	8,000	14,805	40,497	50,000
Number of Railways Operating Trucks.....	15	20	30	45	55	60
Number of Trucks Operated*....	900	1,600	3,300	4,900	5,900	7,000

\*Exclusive of vehicles operated by Railway Express Agency which is not controlled by railroads.



# Livestock Receipts at Various Markets—1929-1930

## Truck Haulage Increases 7%

(Figures from National Live Stock Marketing Association)

(1929 and 1930)

	Market Receipts 1929	Market Receipts 1930	% Increase or Decrease		Market Receipts 1929	Market Receipts 1930	% Increase or Decrease
<b>Buffalo</b>				<b>National Stock Yards (East St. Louis)</b>			
Rail...	1,527,988	1,428,121	— 6.5	Rail...	4,440,011	3,791,904	—14.6
Truck...	171,533	164,615	— 4.0	Truck...	1,153,327	1,442,251	+25.1
	1,699,521	1,592,736	— 6.3		5,593,338	5,234,155	— 6.4
<b>Chicago</b>				<b>†Omaha</b>			
Rail...	10,909,540	10,257,013	— 6.0	Rail...	5,657,600	5,975,961	+ 5.6
Truck...	603,984	763,704	+26.4	Truck...	2,106,236	2,415,565	+14.7
	11,513,524	11,020,717	— 4.3		7,763,836	8,391,526	+ 8.1
<b>Cincinnati</b>				<b>Pittsburg</b>			
Rail...	643,749	477,667	—25.8	Rail...	1,033,628	929,573	—10.1
Truck...	693,157	692,069	— 0.16	Truck...	51,644	84,200	+63.0
	1,336,906	1,169,736	—12.5		1,085,272	1,013,773	— 6.6
<b>Cleveland</b>				<b>Springfield</b>			
Rail...	932,343	853,745	— 8.4	Rail...	...	...	...
Truck...	308,600	362,179	+17.4	Truck...	*170,009	184,427	+ 8.5
	1,240,943	1,215,924	— 2.0		170,009	184,427	+ 8.5
<b>Detroit</b>				<b>St. Joseph</b>			
Rail...	695,330	532,378	—23.4	Rail...	2,502,833	2,180,423	—12.8
Truck...	545,933	613,673	+12.4	Truck...	1,349,079	1,459,988	+ 8.2
	1,241,263	1,146,051	— 7.7		3,851,912	3,640,411	— 5.5
<b>Evansville</b>				<b>Sioux City</b>			
Rail...	38,488	36,350	— 5.6	Rail...	2,022,030	2,082,710	+ 3.0
Truck...	275,478	296,465	+ 7.6	Truck...	1,970,919	2,278,758	+15.6
	313,966	332,815	+ 6.0		3,992,949	4,361,468	+ 9.2
<b>Fort Worth</b>				<b>St. Paul</b>			
Rail...	1,686,272	1,332,465	—20.9	Rail...	4,524,411	4,141,474	— 8.4
Truck...	344,287	347,904	+ 1.1	Truck...	908,513	1,310,253	+44.0
	2,030,559	1,680,369	—17.2		5,432,924	5,451,727	+ .3
<b>Indianapolis</b>				<b>TOTAL</b>			
Rail...	993,132	605,598	—39.0	Rail...	42,951,178	39,567,968	— 7.9
Truck...	1,715,324	1,714,600	— 0.04	†Truck	13,261,131	14,200,631	+ 7.1
	2,708,456	2,320,198	—14.3		56,212,309	53,768,599	— 4.36
<b>Kansas City</b>							
Rail...	5,343,823	4,942,586	— 7.5				
Truck...	1,063,117	1,254,407	+18.0				
	6,406,940	6,196,993	— 4.8				

†Figures from Bureau of Publicity, Omaha Chamber of Commerce.

\*May include few rail receipts, although quantity would be negligible.

‡Springfield not included.



## 16,948,000 Head of Livestock Hauled by Trucks in 1930

(Figures from Corn Belt Farm Dailies)

17 Leading Markets		1929	1930
Total head of livestock hauled.....		14,510,524	16,947,803
Increase over 1929.....			17%
Number of truck loads.....		1,200,000	1,600,000
Truck mileage traveled.....		60,500,000	100,000,000
Length of haul.....		1—300 miles	1—300 miles
Average haul.....		50 miles	60 miles
Number of pounds.....		4,000,000,000	5,000,000,000
Total value.....		\$410,000,000	\$470,000,000

Years	Cattle	Calves	Hogs	Sheep	Total
1919.....					2,453,568
1925.....	627,377	567,573	3,469,395	714,523	5,378,868
1926.....	830,478	877,812	4,256,648	925,518	6,890,456
1927.....	946,689	740,038	5,546,448	1,159,926	8,393,101
1928.....	1,338,802	824,712	8,592,411	1,437,133	12,193,058
1929.....	1,568,740	1,092,786	10,011,565	1,837,443	14,510,524
1930.....	2,054,664	1,369,592	11,045,914	2,447,633	16,947,803

## Los Angeles Receives 56 Per Cent of Its Farm Produce in 1929 by Truck

(From United States Department of Agriculture)

Commodity	*Truck	Rail	*Total	Per Cent by Truck	Per Cent by Rail
Apples.....	183	3,110	3,293	5.6	94.4
Grapes.....	1,370	30	1,400	97.9	2.1
Peaches.....	1,010	348	1,358	74.4	25.6
Pears.....	281	428	709	39.6	60.4
Plums and prunes.....	268	27	295	90.8	9.2
Grapefruit.....	605	160	765	79.1	20.9
Lemons.....	525		525	100.0	
Oranges.....	3,294	46	3,340	98.6	1.4
Strawberries.....	777	13	790	98.4	1.6
Cantaloupes.....	1,839	807	2,646	69.5	30.5
Watermelons.....	871	2,204	3,075	28.3	71.7
Cabbage.....	1,099	163	1,262	87.1	12.9
Celery.....	2,558	151	2,709	94.4	5.6
Lettuce.....	2,567	1,686	4,253	60.4	39.6
Onions.....	537	681	1,218	44.1	55.9
Potatoes—white.....	1,121	6,830	7,951	14.1	85.9
Potatoes—sweet.....	373	324	697	53.5	46.5
Tomatoes.....	2,127	36	2,163	98.3	1.7
<b>Total 18 Commodities.....</b>	<b>21,405</b>	<b>17,044</b>	<b>38,449</b>	<b>55.7</b>	<b>44.3</b>

\*Carload Equivalents.



## Leading Truck Fleets in United States

Company	Trucks	Company	Trucks
American Tel. & Tel. Co.....	16,000	Penna. Highway Dept.....	1,093
U. S. Postal Service.....	*11,079	Western Dairy Products, Inc.....	1,050
Standard Oil Co. (N. J.).....	11,000	Department of Highways, Tenn..	1,037
Borden Company.....	10,000	Consol. Gas Co. of N. Y.....	957
Railway Express Agency.....	9,427	Standard Oil Co. of Ohio.....	785
Standard Oil Co. of Indiana.....	7,850	Sheffield Farms.....	700
National Dairy Prod. Co.....	6,700	United States Trucking Corp.....	648
Standard Oil Co. (N. Y.).....	4,000	American Stores Co.....	612
Commonwealth & Southern Corp.	3,974	California Highway Dept.....	608
Continental Baking Co.....	3,500	Supply Dept., U. S. Marine C.	
Standard Brands of N. Y.....	3,275	(Phila.).....	600
Midwest Utilities Co.....	3,265	So. California Edison Co. Ltd....	576
Standard Oil Co. of Calif.....	3,104	Sun Oil Co.....	575
N. Y. City Dept. Sanitation.....	2,370	Ohio Fuel Gas Co.....	497
Ward Baking Company.....	2,319	Pacific Gas & Electric Co.....	493
Gulf Refining Co.....	2,185	Minnesota Highway Dept.....	448
Armour & Company.....	2,014	Humble Oil & Refining Co.....	443
General Baking Co.....	1,845	Philadelphia Electric.....	434
National Biscuit Co.....	1,800	N. Y. State Highway Division...	430
Texas Company.....	1,675	United Parcel Service.....	350
Shell Oil Co.....	1,478	Indian Refining Co.....	250
Sinclair Refining Company.....	1,230	Beechnut Packing Co.....	199
Atlantic Refining Co.....	1,212	New York Edison.....	186
Union Oil Company.....	1,210		

\*Includes government-owned and also contract-operated trucks

## Motor Truck Driver Training and Safety Work

Much more is being done than is generally realized to develop habits of safety and courtesy on the part of motor truck drivers.

As a part in its Better Truck Driving Campaign in which it is distributing to interested fleet owners pamphlets describing typical successful driver training plans, the National Automobile Chamber of Commerce made a survey of the present extent of driver training and safety work in the winter of 1930-31, in which it had the cooperation of 71 organizations, including motor truck associations, safety councils, chambers of commerce and trade associations, with the following results:

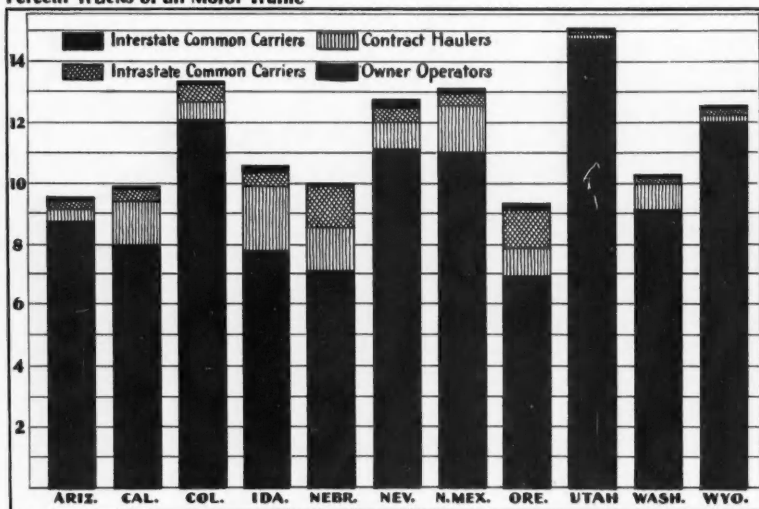
Type of Training or Safety Work	FLEETS		TRUCKS	
	Number	Per Cent	Number	Per Cent
Service (Private delivery.....	1,166	68	46,632	76
(Hauling for hire.....	550	32	14,845	24
Systematic driver training.....	700	41	42,074	69
Encouraging better driving.....	1,671	97	60,365	98
Careful selection of drivers.....	1,068	62	46,610	76
Instructing new drivers.....	1,135	66	51,340	84
Rewarding good performance.....	751	44	34,872	57
Penalizing poor performance.....	1,269	74	51,363	84
Printed or posted safety rules.....	642	37	42,862	70
Special accident report forms.....	981	57	48,736	79
<b>Total Number Surveyed .....</b>	<b>1,716</b>	<b>100 %</b>	<b>61,477</b>	<b>100 %</b>

The above table includes the operators of three or more trucks. In addition 216 replies were received from operators of one or two trucks, 199 of whom do something to encourage better driving.

## Common Carriers 5½ Percent of Total Trucks

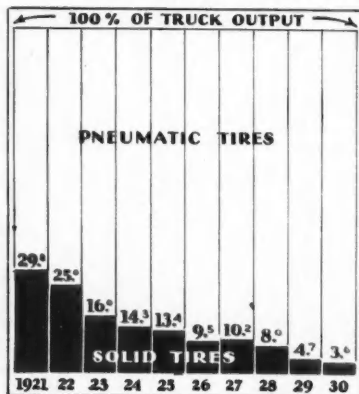
(180,000 Trucks Surveyed in 11 Western States by U. S. Bureau of Public Roads)

Percent Trucks of all Motor Traffic



	Number	Per Cent	Number	Per Cent
Common Carriers { Interstate	1,955	1.05	9,965	5.5
{ Intrastate	8,010	4.45		
Contract Operated.....			15,648	8.7
Privately Operated.....			154,387	85.8
Total Trucks.....			180,000	100.0

## 1930 Shows Decrease in Solid Tire Use on Motor Trucks



Use of solid and cushion tire equipment on new motor trucks showed a continued decrease in 1930.

Estimates indicate that only 3.6 per cent of the 1930 truck production had solid or cushion tire equipment whereas in 1921 the percentage of commercial vehicles so equipped amounted to 29.8 per cent.

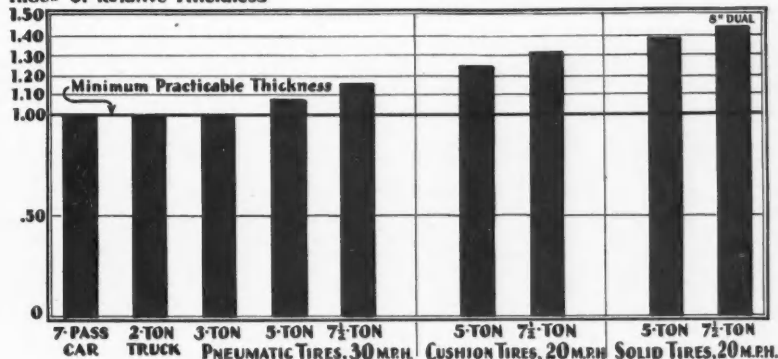
Solid tire use is now confined almost exclusively to a limited field of specialized hauling including road construction, excavating and the transportation of structural steel and other extremely heavy loads.

### SOLID AND CUSHION TIRE USE

Year	Total Solid and Cushion Tire Shipments	Original Equipment	Replacement
1921.....	684,140	171,036	513,104
1922.....	965,060	241,260	723,700
1923.....	981,499	245,374	736,125
1924.....	898,072	224,520	673,552
1925.....	1,067,193	266,800	800,393
1926.....	733,316	183,330	549,986
1927.....	744,000	186,000	558,000
1928.....	683,470	170,870	512,600
1929.....	570,372	142,592	427,780
1930.....	313,420	78,352	235,068

# Impact Tests on Road Surface

Index of Relative Thickness



The figures from which the above chart is made are shown in the table below. In terms of thickness of a concrete slab, a  $7\frac{1}{2}$  ton truck, equipped with pneumatic tires and operated at 30 miles per hour, requires a surface 15.4% thicker than does a 7-passenger automobile operated at the same speed.

## Road Wear in Relation to Size and Speed of Vehicle

(Study made by U. S. Bureau of Public Roads)

Thickness of concrete road slab required for vehicles of various weights operated at certain speeds and equipped with pneumatic, cushion or solid tires. These impact tests were made on pavement smoothness equal to fair sheet asphalt (N Street, 2nd to 1st, S. W., Washington D. C.)

Class of Vehicle	SLAB DESIGN						Index of relative thickness
	EDGE				CENTER		
	Rear wheel load (lbs.)	Max. impact force (lbs.)	Thick-ness (ins.)	Stress (lbs. per sq. in.)	Thick-ness (ins.)	Stress (lbs. per sq. in.)	
Pneumatic Tires—Vehicles Operated at 30 Miles Per Hour							
7 -pass. car.....	1,750	5,100	7	226	6	218	1.000
2 -ton truck.....	4,400	7,900	7	280	6	290	1.000
3 -ton truck.....	5,600	9,200	7	320	6	332	1.000
5 -ton truck.....	9,000	12,500	7½	336	6½	358	1.077
7½-ton truck.....	11,000	14,600	8	338	7	353	1.154
New Cushion Tires—Vehicles Operated at 20 Miles Per Hour							
5 -ton truck.....	9,000	13,400	8½	348	7½	332	1.231
7½-ton truck.....	11,000	15,300	9	344	8	332	1.308
New Solid Tires—Vehicles Operated at 20 Miles Per Hour							
5 -ton truck.....	9,000	15,300	9½	360	8½	323	1.385
7½-ton truck.....	11,000	17,400	10	341	8½	347	1.423

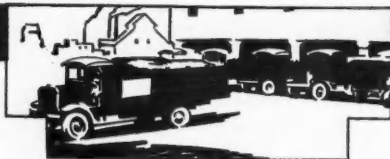
# Average Taxes on Three-Ton Trucks

## Does Not Include Personal Property, Municipal, Franchise, Wheelage or Other Local Taxes

The following assumptions were made in computing these fees:—New truck; net weight 7,000 lbs.; chassis weight 6,000 lbs.; capacity 6,000 lbs.; gross weight 13,000 lbs.; 30 horsepower; value \$4,500.00; total solid tire width 30 inches; total pneumatic tire width 42 inches; annual mileage

when privately operated 10,000; annual mileage when operated as a common carrier 25,000; annual gross income when operated as a common carrier \$15,000; total gasoline consumption when privately operated 2,500 gallons; total gasoline consumption when operated as a common carrier 5,000 gallons.

	PRIVATELY USED			COMMON CARRIER		
	Registration Fees Solid	Pneumatic	Gas Tax	Registration Fees Solid	Pneumatic	Gas Tax
Alabama.....	\$100.00	\$100.00	\$100.00	\$260.00	\$260.00	\$200.00
Arizona.....	67.00	33.50	100.00	442.00	408.50	200.00
Arkansas.....	187.50	125.00	125.00	881.25	787.50	250.00
California.....	96.00	43.00	75.00	750.00	750.00	150.00
Colorado.....	37.50	37.50	100.00	468.75	375.00	200.00
Connecticut.....	70.00	52.50	50.00	70.00	52.50	100.00
Delaware.....	52.00	52.00	75.00	52.00	52.00	150.00
Florida.....	140.00	105.00	150.00	760.00	695.00	300.00
Georgia.....	52.50	52.50	150.00	552.50	552.50	300.00
Idaho.....	108.00	72.00	125.00	452.00	398.00	250.00
Illinois.....	75.00	75.00	75.00	205.00	205.00	150.00
Indiana.....	35.00	35.00	100.00	35.00	35.00	200.00
Iowa.....	125.00	100.00	75.00	937.50	506.25	150.00
Kansas.....	90.00	45.00	75.00	230.00	185.00	150.00
Kentucky.....	95.00	95.00	125.00	95.00	95.00	250.00
Louisiana.....	104.50	98.40	100.00	260.40	230.40	200.00
Maine.....	73.33	55.00	100.00	73.33	55.00	200.00
Maryland.....	30.00	9.60	100.00	325.00	325.00	200.00
Massachusetts.....	19.50	19.50	50.00	19.50	19.50	100.00
Michigan.....	87.50	87.50	75.00	157.50	157.50	150.00
Minnesota.....	108.00	108.00	75.00	450.00	450.00	150.00
Mississippi.....	125.00	93.75	125.00	187.50	140.63	250.00
Missouri.....	18.00	18.00	50.00	18.00	18.00	100.00
Montana.....	46.88	37.50	125.00	56.88	47.50	250.00
Nebraska.....	35.00	35.00	100.00	35.00	35.00	200.00
Nevada.....	39.00	39.00	100.00	170.00	170.00	200.00
New Hampshire.....	104.00	78.00	100.00	104.00	78.00	200.00
New Jersey.....	48.00	48.00	75.00	48.00	48.00	150.00
New Mexico.....	167.50	134.00	125.00	333.75	317.00	250.00
New York.....	52.00	52.00	50.00	52.00	52.00	100.00
North Carolina.....	100.00	75.00	125.00	900.00	900.00	250.00
North Dakota.....	107.00	107.00	75.00	192.00	192.00	150.00
Ohio.....	70.00	70.00	100.00	140.00	140.00	200.00
Oklahoma.....	80.00	80.00	100.00	330.00	330.00	200.00
Oregon.....	115.00	77.00	100.00	190.00	152.00	200.00
Pennsylvania.....	150.00	90.00	75.00	150.00	90.00	150.00
Rhode Island.....	52.00	39.00	50.00	52.00	39.00	100.00
South Carolina.....	120.00	60.00	150.00	812.50	406.25	300.00
South Dakota.....	75.00	75.00	100.00	675.00	525.00	200.00
Tennessee.....	35.00	35.00	125.00	35.00	35.00	250.00
Texas.....	130.00	104.00	100.00	145.00	119.00	200.00
Utah.....	75.00	40.00	87.50	575.00	540.00	175.00
Vermont.....	104.00	104.00	100.00	104.00	104.00	200.00
Virginia.....	60.00	60.00	125.00	300.00	300.00	250.00
Washington.....	52.00	52.00	75.00	318.00	318.00	150.00
West Virginia.....	75.00	56.25	100.00	187.50	187.50	200.00
Wisconsin.....	75.00	75.00	50.00	775.00	440.00	100.00
Wyoming.....	80.00	50.00	100.00	110.00	80.00	200.00
Average, 1931.....	\$81.53	\$66.36	\$95.55	\$301.45	\$271.95	\$193.23
Average, 1930.....	81.32	66.22	95.05	298.22	268.68	190.10
Average, 1923.....	58.85	53.50	27.78	97.00	90.00	55.56



# Method by Which Registration Fees Are Computed in Different States (January 1, 1931)

STATE	PASSENGER CARS	COMMERCIAL CARS (Not Common Carriers)
Alabama.....	Horsepower.	Tons capacity.
Arizona.....	Flat rate.	Flat rate and pounds unladen weight and kind of tires.
Arkansas.....	H. P. and pounds gross weight.	Tons capacity and kind of tires.
California.....	Flat rate.	Flat rate and pounds unladen weight and kind of tires.
Colorado.....	Cost price.	Tons capacity.
Connecticut.....	Cubic inch displacement.	Tons capacity and kind of tires.
Delaware.....	Pounds gross weight.	Pounds gross weight.
Florida.....	Pounds gross weight.	Pounds net weight and kind of tires.
Georgia.....	Pounds gross weight.	Tons capacity.
Idaho.....	Pounds net weight and number of times registered.	Chassis weight capacity and kind of tires.
Illinois.....	Horsepower.	Pounds gross weight.
Indiana.....	Horsepower and pounds net weight.	Tons capacity.
Iowa.....	Value and pounds net weight.	Tons capacity and kind of tires.
Kansas.....	Flat rate and pounds gross weight.	Tons capacity and kind of tires.
Kentucky.....	Horsepower and pounds net weight.	Pounds capacity.
Louisiana.....	Horsepower.	Horsepower and pounds capacity and kind of tires.
Maine.....	Horsepower and pounds net weight.	Pounds capacity and kind of tires.
Maryland.....	Horsepower.	Pounds capacity and kind of tires (horsepower if on pneumatic tires).
Massachusetts.....	Horsepower.	Pounds gross weight.
Michigan.....	Pounds net weight.	Pounds unladen weight.
Minnesota.....	Value.	Value and tons capacity.
Mississippi.....	Horsepower and pounds gross weight.	Tons capacity and kind of tires.
Missouri.....	Horsepower.	Tons capacity.
Montana.....	Net weight.	Tons capacity and kind of tires.
Nebraska.....	Pounds net weight.	Pounds capacity.
Nevada.....	Pounds gross weight.	Pounds gross weight.
New Hampshire.....	Pounds gross weight.	Pounds gross weight and kind of tires.
New Jersey.....	Horsepower.	Pounds gross weight.
New Mexico.....	Pounds net weight.	Chassis weight and kind of tires.
New York.....	Pounds net weight.	Pounds net weight.
North Carolina.....	Horsepower.	Tons capacity and kind of tires.
North Dakota.....	Factory price, net weight, horsepower and times registered.	Factory price, net weight, horsepower, and tons capacity.
Ohio.....	Horsepower.	Pounds unladen weight.
Oklahoma.....	Manufacturers' list price.	Pounds capacity and times registered.
Oregon.....	Pounds net weight.	Net weight and kind of tires.
Pennsylvania.....	Horsepower.	Pounds chassis weight and kind of tires.
Rhode Island.....	Pounds gross weight.	Pounds gross weight and kind of tires.
South Carolina.....	Pounds net weight.	Tons capacity and kind of tires.
South Dakota.....	Pounds net weight.	Tons capacity.
Tennessee.....	Horsepower.	Horsepower and tons capacity.
Texas.....	Pounds net weight.	Pounds gross weight, kind of tires and number of wheels.
Utah.....	Horsepower.	Tons capacity and kind of tires.
Vermont.....	Pounds net weight.	Pounds gross weight.
Virginia.....	Pounds net weight.	Tons capacity.
Washington.....	Pounds net weight.	Pounds net weight and pounds capacity.
West Virginia.....	Flat rate, pounds net weight.	Tons capacity and kind of tires.
Wisconsin.....	Pounds net weight.	Tons gross weight and number of wheels.
Wyoming.....	Horsepower.	Tons capacity and kind of tires.
District of Columbia.....	Flat rate.	Flat rate.

# Special Motor Taxes in Relation to Road Costs

(1929 Figures from "Highway Tax Costs" by John E. Walker)

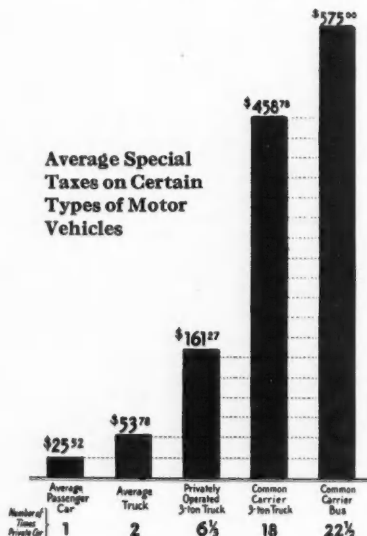
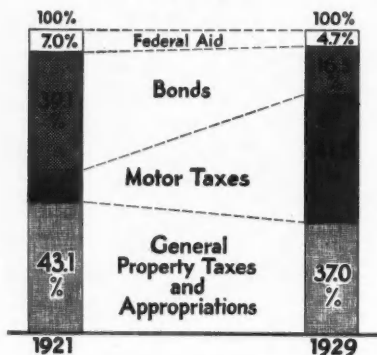
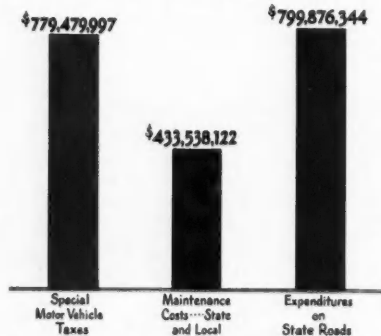


Chart on left shows that the average privately operated 3-ton truck pays 6½ times the average tax on a private automobile; the 3-ton common carrier truck, 18 times; and the common carrier bus 22 times the average passenger car tax.

## Motor Tax Share Quadrupled Since 1921



## Special Motor Taxes Compared with Total Road Maintenance and with State Road Costs



Special Motor Taxes of \$779,479,997 in 1929 include funds diverted for other than highway uses.

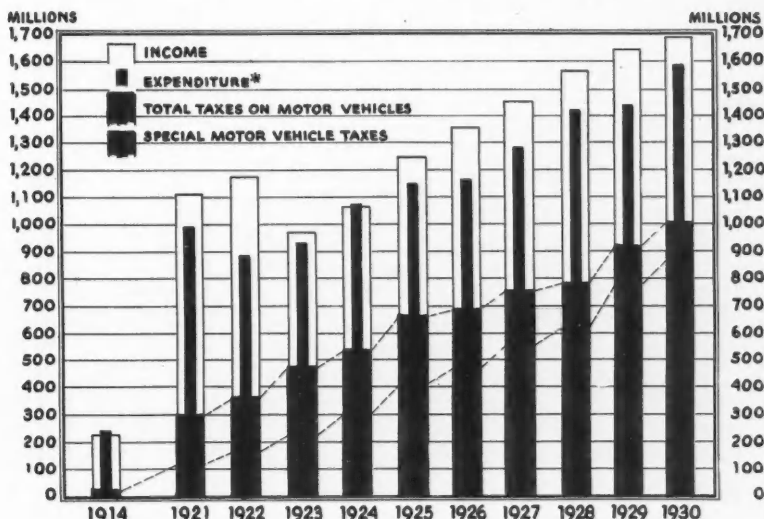
## Rural Highway Income—1921-1929

(Refers to above chart)

1921		Per Cent
Motor Vehicle Fees.	\$116,401,416	10.8
Gasoline Taxes...	3,513,460	
Gen. Prop. Taxes...	415,746,635	43.1
Appropriations...	62,204,984	
Miscellaneous...	62,204,984	39.1
Bonds...	434,572,734	
Federal Aid	77,456,687	7.0
Total...	\$1,109,895,916	100.
1929		Per Cent
Motor Vehicle Fees.	\$329,979,058	41.8
Gasoline Taxes...	357,751,294	
Gen. Prop. Taxes...	425,583,916	37.0
Appropriations...	135,324,157	
Miscellaneous...	47,954,874	16.5
Bonds...	271,864,443	
Federal Aid	77,572,691	4.7
Total...	\$1,646,030,433	100.



## Three-Fifths of Road Income From Motor Taxes



\*The continued excess of income over expenditures as represented in the height of the respective bars in the diagram, is explained by the fact that receipts from bond issues have been included in the income account, but payments on principal of bonds have not been included in expenditures. However, interest payments have been included in expenditures.

## Motor Vehicle Taxes, 1919-1930

	Registration Fees	Gasoline Tax	War Excise Taxes†	Personal Property and Municipal Taxes‡	Total*
1919...	\$ 64,697,255	\$ 1,022,514	\$101,138,191	\$ 55,000,000	\$222,365,681
1920...	102,546,212	1,363,902	149,207,520	60,000,000	315,157,877
1921...	122,478,654	5,382,111	99,967,423	66,000,000	295,604,682
1922...	152,047,824	12,703,078	114,793,400	77,000,000	358,329,922
1923...	188,970,992	38,566,338	155,796,944	88,000,000	473,241,674
1924...	225,492,252	80,442,295	139,201,755	99,000,000	546,150,141
1925...	260,619,621	148,358,087	143,430,709	110,000,000	664,273,492
1926...	288,282,352	187,603,231	96,255,639	126,000,000	698,272,350
1927...	301,061,132	258,838,813	60,473,708	137,000,000	757,373,653
1928...	322,630,025	304,871,766	20,386,176	148,000,000	795,887,967
1929...	347,843,543	431,311,519	.....	149,000,000	928,155,062
1930...	355,704,860	494,683,410	.....	150,000,000	1,000,388,270

\*Totals include Federal tax on vehicles for hire: 1919—\$507,721; 1920—\$2,040,243; 1921—\$1,776,494; 1922—\$1,785,620; 1923—\$1,907,400; 1924—\$2,013,839; 1925—\$1,865,075; 1926—\$131,128.

†Figures from Bureau of Internal Revenue; War tax removed May 29, 1928.

‡Estimated by N. A. C. C.

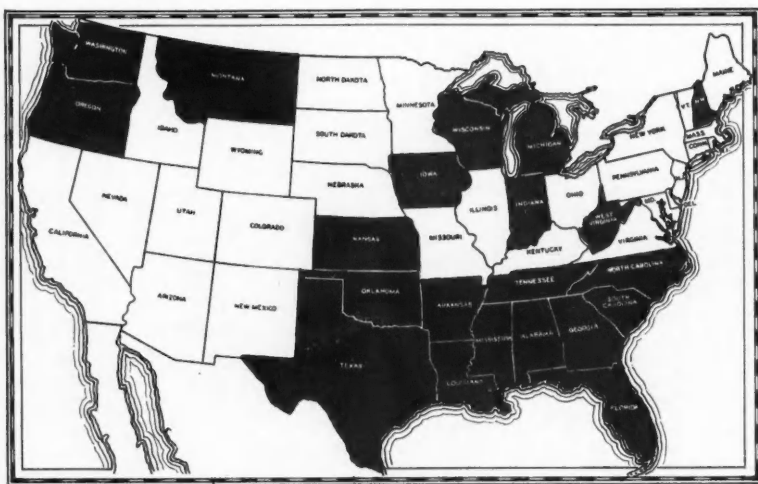
# Rural Road Progress

(Figures from United States Bureau of Public Roads)

Year	RURAL ROAD MILEAGE			RURAL ROAD FINANCE		State Road Bonds Outstanding <sup>4</sup>	Federal Aid Paid to States <sup>5</sup>
	Total	Surfaced	High Type Surface <sup>1</sup>	Income <sup>2</sup>	Expenditure <sup>3</sup>		
1904...	2,151,379	153,530	144	\$79,623,616	\$79,595,418	\$4,525,000	.....
1909...	2,199,645	190,476	725	.....	.....	20,007,500	.....
1914...	2,445,761	257,291	14,442	240,263,784	249,055,067	93,264,000	.....
1921...	2,941,294	387,760	35,874	1,109,895,916	994,103,567	272,205,400	\$55,974,306
1922...	2,960,000	410,000	.....	1,170,000,000	898,352,307	411,702,900	88,205,933
1923...	2,995,727	439,341	54,217	976,426,191	938,305,299	472,868,600	69,677,242
1924...	3,004,411	471,668	63,797	1,074,172,717	1,075,593,689	549,685,050	79,217,398
1925...	3,006,083	521,260	76,342	1,245,271,344	1,144,415,513	700,576,150	95,749,998
1926...	3,000,190	550,064	82,987	1,348,693,973	1,163,747,971	765,678,250	87,754,535
1927...	3,013,584	588,721	91,935	1,452,579,433	1,283,110,631	857,315,250	81,371,013
1928...	3,016,281	626,137	102,559	1,566,946,170	1,423,870,278	892,510,450	80,802,233
1929...	3,024,233	662,435	112,454	1,646,030,433	1,444,668,985	1,008,856,150	80,830,336
1930...	3,030,000	700,000	128,000	1,700,000,000	1,600,000,000	.....	75,880,863

<sup>1</sup>—Includes bituminous macadam by penetration, and higher types. <sup>2</sup>—After year 1914 excludes transferred funds between state and local authorities thus omitting duplications. <sup>3</sup>—After year 1914 excludes disbursements other than on roads, such as transferred funds between state and local authorities, and payments of principal for bond retirement. <sup>4</sup>—All highway bonds issued by both state and local authorities and outstanding at the end of 1914 were \$344,763,082; 1921, \$1,222,312,300; 1926, \$2,152,016,533. <sup>5</sup>—Fiscal years ending June 30. Accumulated total paid to states prior to June 30, 1930 was \$819,452,024. <sup>6</sup>—Estimated by N. A. C. C.

## Twenty-one States Shown in Blue Do Not Levy General Property Taxes for State Road Purposes



# Highway Summary, U. S., 1930

Total mileage in United States.....	3,030,000
State highway system.....	322,000
County and local roads.....	2,703,000
Mileage surfaced.....	700,000
State highways.....	223,000
Local roads.....	477,000
High type surface.....	128,000
Mileage surfaced 1930 (Reconstructed sur- facing included) .....	55,000
Expenditures—1930.....	\$1,600,000,000
Street construction and maintenance.....	\$ 600,000,000

## Federal Aid System

Total approved miles.....	193,049
Total mileage completed with Federal Aid...	84,013
Constructed 1930 (Fiscal year).....	9,349
Total improved forest road mileage.....	4,357
Annual Federal Aid authorization.....	\$ 125,000,000
Federal Aid payments to states (1930 Fis- cal year) .....	75,880,863



# Total Highway Mileage by States

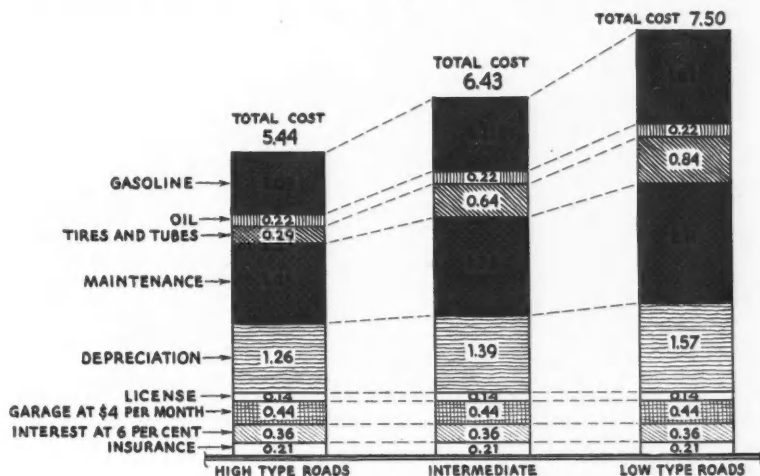
(Figures from United States Bureau of Public Roads, December 31, 1929)

STATES	TOTAL RURAL ROAD MILEAGE			MILES SURFACED ROADS		
	Total	State highways	Local roads	Total	State highways	Local roads
Alabama.....	67,943	5,539	62,404	18,369	3,292	15,077
Arizona.....	22,284	2,476	19,808	3,597	1,685	1,912
Arkansas.....	68,506	8,467	60,039	7,958	6,015	1,943
California.....	76,964	6,576	70,388	25,381	4,255	21,126
Colorado.....	68,974	9,203	59,771	7,157	4,192	2,965
Connecticut.....	14,145	2,123	12,022	3,572	2,017	1,555
Delaware.....	3,777	756	3,021	1,180	756	424
Florida.....	30,183	6,520	23,663	15,123	3,582	11,541
Georgia.....	101,422	6,290	95,132	14,831	3,854	10,977
Idaho.....	39,137	4,245	34,892	8,884	2,484	6,400
Illinois.....	97,287	9,889	87,398	21,375	6,901	14,474
Indiana.....	73,661	5,003	68,658	51,314	4,962	46,352
Iowa.....	103,328	7,206	96,122	18,021	5,822	12,199
Kansas.....	132,244	8,690	123,554	5,685	3,464	2,221
Kentucky.....	61,261	11,500	49,761	17,030	5,528	11,502
Louisiana.....	35,553	9,113	26,440	11,152	6,598	4,554
Maine.....	21,002	2,041	18,961	5,777	1,833	3,944
Maryland.....	14,733	2,831	11,902	5,704	2,831	2,873
Massachusetts.....	18,762	1,625	17,137	9,324	1,625	7,699
Michigan.....	81,015	7,725	73,290	25,143	7,139	18,004
Minnesota.....	110,553	6,955	103,598	35,501	6,723	28,778
Mississippi.....	61,957	10,038	51,919	16,112	5,110	11,002
Missouri.....	110,592	7,827	102,765	13,074	4,827	8,247
Montana.....	67,072	8,148	58,924	3,437	1,513	1,924
Nebraska.....	93,911	8,371	85,540	5,364	4,190	1,174
Nevada.....	23,540	3,741	19,799	2,237	1,560	677
New Hampshire.....	12,035	2,463	9,572	2,784	2,289	495
New Jersey.....	17,207	1,821	15,386	9,077	1,759	7,318
New Mexico.....	47,785	9,343	38,442	2,539	2,196	343
New York.....	85,783	13,959	71,824	32,713	10,908	21,805
North Carolina.....	71,529	8,309	63,220	29,649	7,333	22,316
North Dakota.....	106,850	7,396	99,454	3,592	2,823	769
Ohio.....	84,553	11,066	73,487	48,503	10,851	37,652
Oklahoma.....	120,760	6,275	114,485	4,774	2,928	1,846
Oregon.....	51,646	4,381	47,265	12,123	3,543	8,580
Pennsylvania.....	90,676	13,310	77,366	26,145	9,846	16,299
Rhode Island.....	2,682	952	1,730	1,025	533	492
South Carolina.....	57,678	5,981	51,697	17,576	4,891	12,685
South Dakota.....	120,275	5,983	114,292	6,147	3,618	2,529
Tennessee.....	67,635	6,751	60,884	15,184	5,006	10,178
Texas.....	187,870	18,034	169,836	26,012	10,896	15,116
Utah.....	23,429	3,448	19,981	4,237	1,795	2,442
Vermont.....	15,042	4,217	10,825	4,983	3,485	1,498
Virginia.....	59,698	6,932	52,766	12,327	4,983	7,344
Washington.....	43,922	3,289	40,633	16,718	2,845	13,873
West Virginia.....	34,799	4,055	30,744	4,450	2,734	1,716
Wisconsin.....	81,415	10,221	71,194	27,815	8,880	18,935
Wyoming.....	41,158	3,052	38,106	1,760	1,424	336
Total, U. S.....	3,024,233	314,136	2,710,097	662,435	208,324	454,111

# High Type Roads Save Two Cents Per Car Mile

Cost in Cents per Mile for "Average" Automobile  
Operated over High, Low and Intermediate Types of Road

(Figures from Bulletin 91, Iowa State College of Agriculture and Mechanics Arts.)



## 6½ Cents Per Mile Per Car

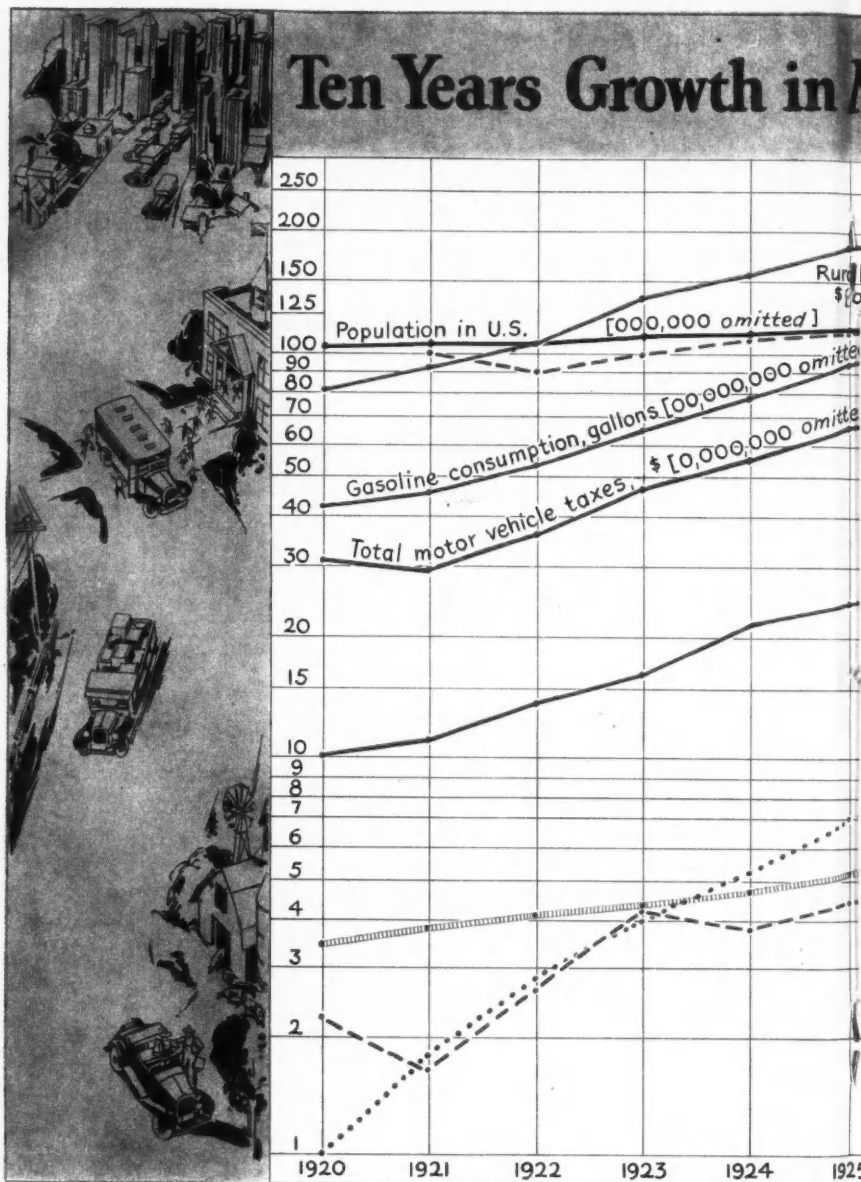
(Figures from Bulletin No. 91 by T. R. Agg and H. S. Carter, Iowa State College)

### Average Cost of Automobile Operation

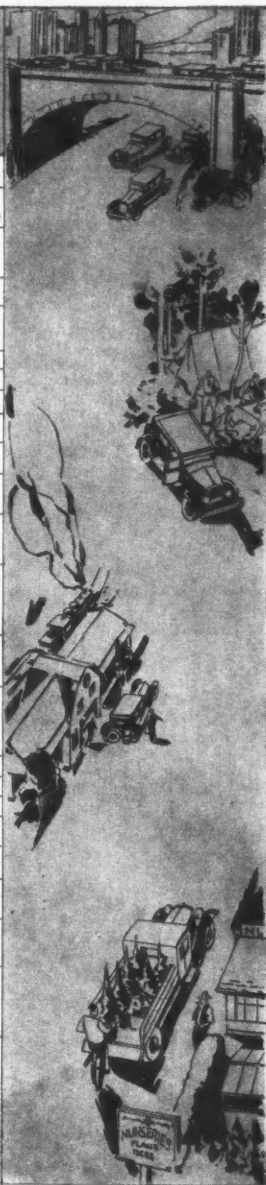
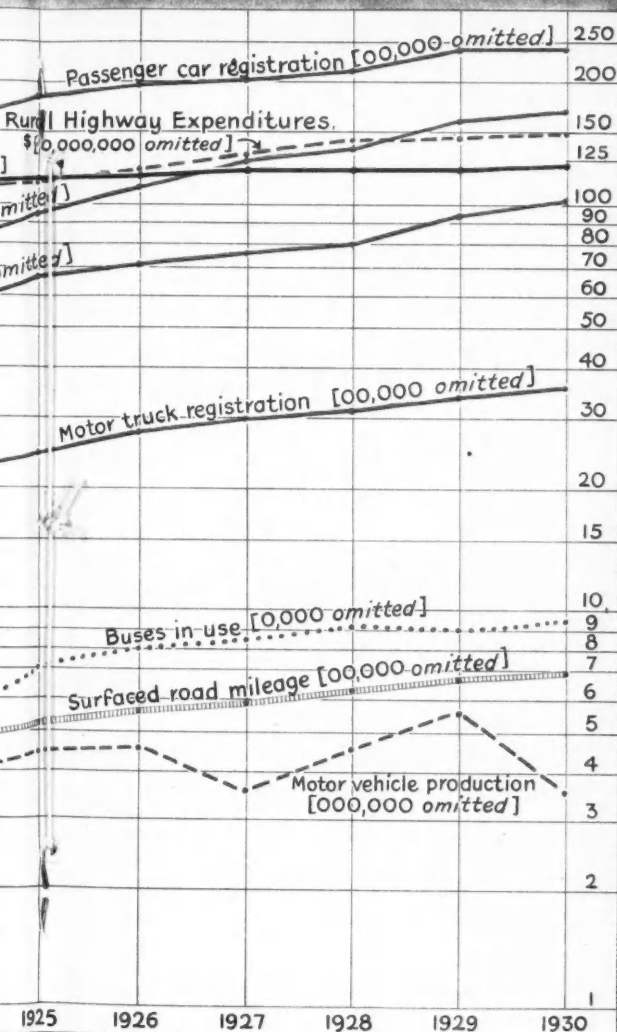
Based on detailed cost records covering about 800 automobiles operated in various parts of the United States and an average of 11,000 miles per year.

Type of Car	Light 4 Average CENTS per mile	Medium 4 Average CENTS per mile	Heavy 4 Average CENTS per mile	Light 6 Average CENTS per mile	Medium 6 Average CENTS per mile	Heavy 6 Average CENTS per mile
Items						
1. Gasoline at 20 cents per gal.	1.34	1.14	1.31	1.36	1.52	1.42
2. Oil.....	.25	.17	.16	.18	.20	.17
3. Tires and tubes	.60	.65	.70	.75	.80	.90
4. Maintenance...	1.55	1.90	2.06	1.95	2.14	2.53
5. Depreciation...	1.25	1.40	1.57	1.74	2.09	2.57
6. License.....	.11	.14	.20	.20	.24	.27
7. Garage at \$4 per month.....	.44	.44	.44	.44	.44	.44
8. Interest at 6%.....	.27	.38	.55	.55	.71	.87
9. Insurance.....	.21	.20	.21	.21	.26	.28
<b>Total.....</b>	<b>6.02</b>	<b>6.42</b>	<b>7.20</b>	<b>7.38</b>	<b>8.40</b>	<b>9.45</b>
Av. miles per gal gas	14.95	17.53	15.29	14.68	13.19	14.02

# Ten Years Growth in



# n Motor Transportation



# Gasoline Tax Receipts

## Exemption Refunds Have Been Excluded

(Figures from United States Bureau of Public Roads)

It is noteworthy that gas tax receipts show a steady increase year by year even though there is no increase in the tax rate. This is due to the gain in motor vehicles registered. Compare, for example, the yearly growth in gas tax receipts by states with a steady gas tax rate shown in the table on opposite page.

	1926	1927	1928	1929	1930
Alabama.....	\$ 2,558,651	\$ 5,908,986	\$ 6,497,551	\$ 7,105,009	\$ 6,901,492
Arizona.....	978,264	1,388,830	2,018,202	2,559,831	2,670,019
Arkansas.....	3,585,304	4,338,737	5,382,782	6,681,029	6,427,273
California.....	16,502,123	22,467,083	29,566,769	34,192,087	34,870,126
Colorado.....	2,091,749	3,139,594	3,921,224	5,217,479	6,144,826
Connecticut.....	2,689,372	3,054,906	3,468,752	4,047,092	4,515,063
Delaware.....	390,414	662,159	800,349	935,947	1,013,357
Dist. of Columbia.....	1,015,193	1,148,794	1,263,148	1,428,181	1,599,689
Florida.....	11,431,486	10,980,586	11,235,225	12,203,056	13,655,175
Georgia.....	5,653,140	7,066,109	8,245,486	10,224,108	13,435,062
Idaho.....	1,122,217	1,571,749	1,883,865	1,945,980	2,730,862
Illinois.....		(1)6,199,509	(1)836,826	(1)11,659,778	27,472,420
Indiana.....	8,971,741	10,133,568	11,177,549	15,610,251	17,158,834
Iowa.....	4,842,427	7,248,214	8,535,628	9,355,785	10,584,068
Kansas.....	4,303,388	4,594,650	5,394,841	8,171,205	9,120,491
Kentucky.....	4,935,078	5,913,396	6,741,781	7,742,564	8,414,733
Louisiana.....	2,708,567	3,034,056	3,380,931	6,978,651	7,546,448
Maine.....	1,823,346	2,288,933	3,192,384	3,708,682	4,168,890
Maryland.....	2,293,854	4,169,397	5,425,873	6,297,168	6,991,188
Massachusetts.....				(1)9,758,816	10,562,947
Michigan.....	10,081,776	14,260,564	18,334,840	21,309,009	21,713,489
Minnesota.....	4,804,688	5,174,880	5,768,100	8,892,125	10,359,111
Mississippi.....	4,088,200	4,890,686	5,564,711	7,045,120	6,917,575
Missouri.....	5,661,145	6,330,983	6,948,229	7,680,672	8,639,161
Montana.....	870,712	1,436,398	1,683,404	2,802,017	2,941,879
Nebraska.....	3,039,927	3,664,919	3,941,164	7,799,479	9,060,422
Nevada.....	405,818	471,624	531,186	652,301	675,012
New Hampshire.....	768,582	1,268,907	1,884,175	2,267,052	2,499,478
New Jersey.....		(1)4,082,860	8,446,930	9,961,276	11,380,231
New Mexico.....	762,851	1,415,690	1,836,900	2,273,966	2,761,887
New York.....				(1)19,055,174	28,476,290
North Carolina.....	7,786,473	8,796,682	9,787,011	12,006,384	12,533,454
North Dakota.....	988,493	1,275,565	1,478,107	1,799,226	1,971,986
Ohio.....	13,257,266	19,910,481	24,885,699	34,082,188	37,081,451
Oklahoma.....	6,212,409	7,197,956	8,147,901	10,841,609	12,092,420
Oregon.....	3,333,829	3,643,191	4,008,259	4,542,602	6,198,777
Pennsylvania.....	11,781,782	17,286,333	21,998,064	35,747,314	33,623,510
Rhode Island.....	511,896	915,959	1,182,328	1,542,759	1,735,747
South Carolina.....	4,496,968	5,080,385	5,518,240	6,866,608	7,145,711
South Dakota.....	1,924,758	2,393,592	3,158,873	3,545,765	3,503,882
Tennessee.....	3,852,524	4,476,180	5,134,600	9,290,853	10,719,195
Texas.....	5,226,886	15,650,841	17,945,037	22,317,494	29,527,098
Utah.....	1,258,099	1,461,261	1,664,247	1,979,226	2,105,529
Vermont.....	553,093	905,244	1,118,882	1,703,091	1,879,921
Virginia.....	5,855,670	7,139,707	8,616,239	9,894,941	10,775,058
Washington.....	3,482,093	3,821,438	4,206,515	5,943,039	7,263,249
West Virginia.....	2,922,675	3,794,068	4,301,883	4,866,192	5,367,078
Wisconsin.....	5,209,805	6,027,114	6,856,759	7,485,039	8,314,841
Wyoming.....	568,589	756,049	954,317	1,296,239	1,447,005
<b>Total.....</b>	<b>\$187,603,231</b>	<b>\$258,838,813</b>	<b>\$304,871,766</b>	<b>\$431,311,519</b>	<b>\$494,683,410</b>

(1) Illinois gas tax effective Aug. 1, 1927 to Feb. 25, 1928 when it was declared unconstitutional; present gas tax law went into effect August 1, 1929.

(2) Massachusetts gas tax effective Jan. 1, 1929. (3) New Jersey tax effective July 1, 1927. (4) New York gasoline tax went into effect May 1, 1929.



# Gasoline Tax Rates by States

(Figures are Cents Per Gallon)

	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931
Alabama.....					2	2	2	2	4	4	4	4	4
Arizona.....				1	3	3	3	3	4	4	4	4	5
Arkansas.....			1	1	3	4	4	4	5	5	5	5	6
California.....					2	2	2	2	3	3	3	3	3
Colorado.....	1	1	1	1	2	2	2	2	3	3	4	4	4
Connecticut.....			1	1	1	1	2	2	2	2	2	2	2
Delaware.....					1	2	2	2	3	3	3	3	3
Florida.....			1	1	3	3	4	4	5	5	6	6	6
Georgia.....			1	1	3	3	3½	3½	4	4	6	6	6
Idaho.....					2	2	3	3	4	4	4	5	5
Illinois.....									2	2	3	3	3
Indiana.....					2	2	3	3	3	3	4	4	4
Iowa.....							2	2	3	3	3	3	3
Kansas.....							2	2	2	2	3	3	3
Kentucky.....		1	1	1	1	3	3	5	5	5	5	5	5
Louisiana.....				1	1	2	2	2	2	2	4	4	4
Maine.....					1	1	3	3	4	4	4	4	4
Maryland.....				1	1	2	2	2	4	4	4	4	4
Massachusetts.....										2	2	2	2
Michigan.....							2	2	3	3	3	3	3
Minnesota.....							2	2	2	2	3	3	3
Mississippi.....				1	1	3	3	4	4	5	5	5	5
Missouri.....							2	2	3	3	3	3	3
Montana.....			1		2	2	2	2	3	3	5	5	5
Nebraska.....							2	2	2	2	4	4	4
Nevada.....					2	2	4	4	4	4	4	4	4
New Hampshire.....					1	2	2	2	3	4	4	4	4
New Jersey.....									2	2	2	2	2
New Mexico.....			1	1	1	1	3	3	5	5	5	5	5
New York.....											2	2	2
North Carolina.....			1	1	3	3	4	4	4	5	5	5	6
North Dakota.....	1	1	1	1	1	1	1	2	2	2	3	3	3
Ohio.....					1	2½	3	3	3	3	4	4	4
Oklahoma.....					1	2½	3	3	3	3	4	4	5
Oregon.....	1	1	2	2	3	3	3	3	3	3	3	4	4
Pennsylvania.....			1	1	2	2	2	2	3	3	4	4*	3
Rhode Island.....							1	1	2	2	2	2	2
South Carolina.....				2	3	3	5	5	5	5	6	6	6
South Dakota.....				1	2	2	3	3	4	4	4	4	4
Tennessee.....					2	2	3	3	3	3	5	5	5†
Texas.....					1	1	1	1	3	2	4	4	4
Utah.....					2½	2½	3½	3½	3½	3½	3½	3½	4
Vermont.....					1	1	2	2	3	3	4	4	4
Virginia.....					3	3	3	4½	4½	5	5	5	5
Washington.....			1	1	1	2	2	2	2½	2	3	3	5
West Virginia.....					2	2	3½	3½	4	4	4	4	4
Wisconsin.....							2	2	2	2	2	2	2
Wyoming.....					1	1	2½	2½	3	3	3	3	3
District of Col.....						2	2	2	2	2	2	2	2

\*Reverts to three cents July 1, 1930.

†7 cent rate effective in one county.

NOTE—The above table is corrected as of April 1st, 1931.

# \$494,683,000 Gas Taxes, 1930,

(Figures from United States

State	Gross Tax Assessed Prior to Deduction of Refund	Exemption Refund: (Deducted from Gross Tax)	Total Tax Earning on Fuel for Motor Vehicles <sup>1</sup>	Other Receipts, Under Tax Law (Licenses)	Grand Total Earning (Tax and Other Receipts)
Alabama.....	\$6,901,491		\$6,901,491	\$1	\$6,901,492
Arizona.....	3,011,844	\$341,625	2,670,019		2,670,019
Arkansas.....	6,702,273	275,000	6,427,273		6,427,273
California.....	38,603,908	3,733,682	34,870,126		34,870,126
Colorado.....	6,834,198	689,372	6,144,826		6,144,826
Connecticut.....	1,071,363	58,006	1,013,357	49,130	1,013,357
Delaware.....	13,622,215		13,622,215	32,960	13,655,175
Georgia.....	13,391,079		13,391,079	43,983	13,435,062
Idaho.....	2,941,124	272,542	2,668,582	62,280	2,730,862
Illinois <sup>17</sup> .....	28,612,269	1,139,849	27,472,420		27,472,420
Indiana.....	18,247,078	1,088,332	17,158,746	88	17,158,834
Iowa.....	11,793,452	1,209,384	10,584,068		10,584,068
Kansas.....	10,853,021	1,732,530	9,120,491		9,120,491
Kentucky.....	8,414,733		8,414,733		8,414,733
Louisiana.....	7,547,292	844	7,546,448		7,546,448
Maine.....	4,347,071	237,575	4,109,496	<sup>15</sup> 59,394	4,168,890
Maryland.....	7,285,117	293,929	6,991,188		6,991,188
Massachusetts.....	10,721,664	158,717	10,562,947		10,562,947
Michigan.....	23,783,308	2,109,429	21,673,879	39,610	21,713,489
Minnesota.....	11,432,686	1,073,575	10,359,111		10,359,111
Mississippi.....	6,791,177		6,791,177	<sup>16</sup> 126,398	6,917,575
Missouri.....	8,901,169	262,008	8,639,161		8,639,161
Montana.....	3,873,713	931,834	2,941,879		2,941,879
Nebraska.....	9,149,484	89,062	9,060,422		9,060,422
Nevada.....	744,615	69,603	675,012		675,012
New Hampshire.....	2,589,833	90,355	2,499,478		2,499,478
New Jersey.....		<sup>18</sup>	11,342,896	37,335	11,380,231
New Mexico.....	2,719,281		2,719,281	42,606	2,761,887
New York.....	29,536,436	<sup>19</sup> 1,060,146	28,476,290		28,476,290
North Carolina.....	13,174,064	640,610	12,533,454		12,533,454
North Dakota.....	3,405,212	1,435,908	1,969,304	2,682	1,971,986
Ohio.....	39,023,304	1,941,853	37,081,451		37,081,451
Oklahoma.....	12,924,521	832,101	12,092,420		12,092,420
Oregon.....	6,787,295	588,518	6,198,777		6,198,777
Pennsylvania.....	33,482,609	166,880	33,315,729	<sup>20</sup> 907,781	33,623,510
Rhode Island.....	1,776,773	44,514	1,732,259	3,488	1,735,747
South Carolina.....	7,162,945	18,635	7,144,310	1,401	7,145,711
South Dakota.....	5,149,295	1,645,413	3,503,882		3,503,882
Tennessee.....	10,719,195		10,719,195		10,719,195
Texas.....	32,341,499	2,814,401	29,527,098		29,527,098
Utah.....	1,879,921	<sup>21</sup>	2,104,823	706	2,105,529
Vermont.....	11,426,066	651,008	10,775,058		10,775,058
Virginia.....	7,951,587	698,338	7,253,249		7,253,249
Washington.....	5,615,926	257,298	5,358,628	8,450	5,367,078
West Virginia.....	8,757,555	442,714	8,314,841		8,314,841
Wisconsin.....	1,447,005		1,447,005		1,447,005
Wyoming.....	1,610,770	11,081	1,599,689		1,599,689
District of Columbia.....					
Total.....			\$493,865,117	\$818,293	\$494,683,410

<sup>1</sup>—This is the net gasoline tax earned after deduction of refunds for exemptions according to law. <sup>2</sup>—Many states pay collection costs from other state funds, and amounts reported are noted. <sup>3</sup>—Payments for state highway bonds except as noted. <sup>4</sup>—Paid from state budget, \$14,685. <sup>5</sup>—Includes \$1,326,274 for county bonds. <sup>6</sup>—Includes \$50,227 for state highway commission office expenses, and \$21,275 for city streets. <sup>7</sup>—Includes administrative costs of state board of equalization which controls fuel tax and transportation tax. <sup>8</sup>—Includes all expenses of state inspector of oils. <sup>9</sup>—For town and city streets. <sup>10</sup>—Exemptions made at time of purchase for 9,349,546 gallons. <sup>11</sup>—Paid from motor vehicle receipts, \$30,000. <sup>12</sup>—Payments on county road bonds. <sup>13</sup>—For schools and school buildings, \$3,783,949, and for reserve fund \$19,680. <sup>14</sup>—For public schools. <sup>15</sup>—Aviation gas tax fund. <sup>16</sup>—The 2 per cent allowance for evaporation and loss on gross purchases by retailers not shown here. <sup>17</sup>—For city streets. <sup>18</sup>—Includes \$3,000,000 from a reserve for refunds on right of way, bridges and culverts. <sup>19</sup>—Paid from state general fund, \$15,000. <sup>20</sup>—Paid by state appropriation, \$57,500. <sup>21</sup>—For dock board. <sup>22</sup>—Consists of one cent tax on all gasoline not used by motor vehicles (3 cent refund). <sup>23</sup>—Includes \$1,381,438 to Baltimore streets and grade crossing; also \$75,000 to conservation department for oyster propagation. <sup>24</sup>—Includes \$500,000 for city streets, \$35,350 for aviation fund, and \$4,260 (dealer's license fees) to state general fund. <sup>25</sup>—Receipts

# and Disposition of Gas Taxes

Bureau of Public Roads)

## DISPOSITION OF GRAND TOTAL EARNING ACCORDING TO LAW Construction and Maintenance

Collection Cost <sup>2</sup>	State Highway	Local Roads	State and County Road Bond Payment <sup>3</sup>	For Miscellaneous Purposes	State
\$34,064	\$1,958,478	\$3,439,493	\$1,469,457	.....	Alabama
4	1,682,596	987,423	.....	.....	Arizona
47,908	4,505,108	.....	\$1,802,755	\$71,502	Arkansas
51,532	23,212,396	11,606,198	.....	.....	California
54,750	4,263,053	1,644,321	.....	\$182,702	Colorado
11	4,515,063	.....	.....	.....	Connecticut
.....	864,170	.....	149,187	.....	Delaware
13,280	4,540,738	756,790	\$4,540,738	\$3,803,629	Florida
4,200	8,953,908	2,238,477	.....	\$2,238,477	Georgia
12,752	2,674,080	.....	35,609	\$8,421	Idaho
61,724	18,273,797	9,136,899	.....	.....	Illinois
40,958	12,838,407	3,209,602	.....	\$1,069,867	Indiana
32,524	\$5,242,393	5,309,151	.....	.....	Iowa
10	7,370,491	1,750,000	.....	.....	Kansas
28,364	8,386,369	.....	.....	.....	Kentucky
11	5,543,453	.....	1,847,817	\$155,178	Louisiana
28,847	2,070,022	2,070,021	.....	.....	Maine
9,000	5,525,750	.....	.....	\$1,456,438	Maryland
20,000	7,407,323	2,500,000	635,624	.....	Massachusetts
41,373	11,508,626	6,623,880	3,000,000	\$539,610	Michigan
.....	6,906,074	3,453,037	.....	.....	Minnesota
6,645	2,848,126	3,855,364	.....	\$207,440	Mississippi
56,760	8,582,401	.....	.....	.....	Missouri
13,500	2,928,379	.....	.....	.....	Montana
7,500	6,789,691	2,263,231	.....	.....	Nebraska
10	675,012	.....	.....	.....	Nevada
.....	1,874,608	.....	624,870	.....	New Hampshire
18,660	11,268,571	.....	.....	\$93,000	New Jersey
55,238	1,842,649	.....	864,000	.....	New Mexico
21	21,319,718	5,685,258	.....	\$1,471,314	New York
.....	8,845,113	.....	3,688,341	.....	North Carolina
25,000	1,290,000	645,000	.....	\$11,986	North Dakota
.....	23,175,907	7,416,290	.....	\$6,489,254	Ohio
62,684	9,022,302	3,007,434	.....	.....	Oklahoma
14,967	6,183,810	.....	.....	.....	Oregon
\$278,875	25,250,576	4,644,213	3,449,846	.....	Pennsylvania
.....	1,301,810	.....	433,937	.....	Rhode Island
.....	3,475,756	1,190,952	\$2,479,003	.....	South Carolina
12,750	2,715,155	.....	775,977	.....	South Dakota
53,596	6,399,359	2,133,120	\$2,133,120	.....	Tennessee
.....	22,145,324	.....	.....	\$7,381,774	Texas
3,836	1,663,193	.....	438,500	.....	Utah
44	1,879,921	.....	.....	.....	Vermont
43	7,542,541	3,232,517	.....	.....	Virginia
46	4,835,499	2,417,750	.....	.....	Washington
.....	2,686,823	.....	2,680,255	.....	West Virginia
10,900	3,057,771	4,647,465	.....	\$598,705	Wisconsin
.....	1,085,254	361,751	.....	.....	Wyoming
.....	.....	.....	.....	\$1,599,689	District of Columbia
<b>\$1,102,187</b>	<b>\$338,927,564</b>	<b>\$96,225,637</b>	<b>\$31,049,036</b>	<b>\$27,378,986</b>	<b>Total</b>

from extra 2 cent tax in Harrison County and 3 cent tax in Hancock County for sea-wall. <sup>28</sup>—Allotted to sea-wall financing; largely from extra tax receipts. <sup>29</sup>—From tax commission fund, \$1,500. <sup>30</sup>—Exemption made at time of purchase for 96,681,081 gallons. <sup>31</sup>—Includes \$90,000 for free bridge commission and Department of Navigation and Commerce, also \$3,000 for Public Utility Commission. <sup>32</sup>—Includes \$764,782, refunds for exemptions, and \$295,364, for 1 per cent allowance on gross receipts to distributors. <sup>33</sup>—State appropriation of \$65,497. <sup>34</sup>—Includes \$50,000 to reserve for refunds and \$1,421,314, to New York City funds. <sup>35</sup>—Paid from state highway commission maintenance fund, \$8,686. <sup>36</sup>—Includes \$11,334 to reserve for refunds, and \$652 (license fees) to state general fund. <sup>37</sup>—Includes \$299,591 for previous years' taxes. <sup>38</sup>—Commissions paid as deductions of tax. <sup>39</sup>—Payments of \$300,000 on state highway bonds and \$2,179,003 on county road bonds. <sup>40</sup>—For free school fund. <sup>41</sup>—An allowance of 2 per cent for evaporation and handling exempts 1,227,178 gallons from tax. <sup>42</sup>—From motor vehicle funds, \$1,000. <sup>43</sup>—State appropriations of \$15,144. <sup>44</sup>—Paid from motor vehicle fund, \$5,000. <sup>45</sup>—For repair and improvement of Washington streets. <sup>46</sup>—Includes payments of \$10,179,135 on county bonds, and \$20,869,901 on state bonds. <sup>47</sup>—Includes \$11,842,930, for city streets; \$13,404,200, for schools, and \$2,131,856 for various items.

# Motor Vehicle Registration Receipts

(Figures from United States Bureau of Public Roads)

	1926	1927	1928	1929	1930
Alabama.....	\$2,889,252	\$3,127,000	\$3,474,065	\$3,736,380	\$3,799,761
Arizona.....	467,795	454,429	555,806	748,565	734,426
Arkansas.....	3,656,368	3,662,272	3,786,004	4,212,161	4,283,959
California.....	8,477,233	8,796,348	9,232,301	10,489,068	9,858,810
Colorado.....	1,507,379	1,600,222	1,790,183	1,835,386	1,901,230
Connecticut.....	6,220,668	6,805,664	7,373,589	7,992,755	8,290,404
Delaware.....	775,577	846,289	928,916	1,023,440	1,110,047
District of Columbia.....	566,312	531,044	473,981	665,914	636,001
Florida.....	6,764,468	5,632,128	4,935,995	4,959,129	4,813,495
Georgia.....	3,381,725	3,712,978	4,041,767	4,568,209	4,482,257
Idaho.....	1,385,930	1,502,185	1,626,949	1,787,467	1,998,290
Illinois.....	14,047,208	14,839,593	15,521,530	17,087,209	18,444,247
Indiana.....	5,093,176	5,430,806	5,751,781	6,253,424	6,346,879
Iowa.....	10,208,416	10,371,699	10,692,767	11,919,350	12,693,621
Kansas.....	4,803,130	6,518,622	5,394,448	5,697,306	6,084,348
Kentucky.....	4,131,745	4,365,062	4,725,258	5,381,302	5,547,069
Louisiana.....	3,993,466	4,199,347	4,383,634	4,523,634	4,609,042
Maine.....	2,355,365	2,558,046	2,763,598	3,030,128	3,166,642
Maryland.....	2,928,268	2,987,912	3,034,621	3,295,314	3,437,796
Massachusetts.....	13,077,857	13,136,442	13,919,618	7,117,725	7,120,583
Michigan.....	16,953,685	17,984,210	20,056,848	23,212,316	22,482,412
Minnesota.....	9,976,560	10,233,644	10,101,785	10,846,826	11,062,150
Mississippi.....	1,973,412	2,556,627	2,814,150	2,963,381	3,046,393
Missouri.....	7,903,025	8,253,009	8,765,609	9,690,727	10,150,000
Montana.....	1,029,383	1,136,103	1,298,828	1,549,487	1,583,276
Nebraska.....	3,636,097	3,740,553	3,950,788	4,289,969	3,804,960
Nevada.....	209,920	229,839	249,111	298,881	373,966
New Hampshire.....	1,710,905	1,915,291	2,070,957	2,248,213	2,290,435
New Jersey.....	11,870,529	12,963,541	13,569,029	14,803,016	15,382,456
New Mexico.....	513,743	528,193	627,751	756,763	1,279,623
New York.....	28,786,421	31,757,889	34,306,706	38,293,313	40,857,715
North Carolina.....	9,400,000	9,246,853	6,088,140	7,045,116	6,835,743
North Dakota.....	1,578,081	1,595,442	1,775,145	1,989,475	1,958,662
Ohio.....	9,818,873	10,745,471	11,840,258	12,860,453	13,287,352
Oklahoma.....	5,515,045	5,753,912	6,258,610	6,964,360	6,536,361
Oregon.....	6,017,759	6,527,341	6,969,221	7,644,226	9,617,930
Pennsylvania.....	24,045,349	26,017,495	27,113,777	29,264,695	33,112,371
Rhode Island.....	1,962,898	2,093,309	2,273,819	2,403,809	2,280,849
South Carolina.....	1,951,559	2,187,290	2,440,539	2,674,379	2,878,352
South Dakota.....	2,429,180	2,491,981	2,901,905	3,150,657	2,959,913
Tennessee.....	3,591,296	3,765,775	4,066,478	4,288,420	4,767,239
Texas.....	14,362,893	15,626,531	17,701,251	20,418,696	13,961,362
Utah.....	634,048	672,403	731,340	838,300	855,584
Vermont.....	1,696,582	1,878,950	2,090,960	2,339,782	2,392,152
Virginia.....	4,624,475	5,235,953	5,572,046	6,145,296	6,493,989
Washington.....	6,056,003	6,482,354	7,028,291	7,547,382	7,616,676
West Virginia.....	3,728,935	4,004,391	4,142,595	4,565,836	4,702,812
Wisconsin.....	9,074,490	9,772,887	10,774,707	11,780,703	13,083,521
Wyoming.....	499,878	525,807	572,570	647,200	691,509
<b>Total.....</b>	<b>\$288,282,352</b>	<b>\$301,061,132</b>	<b>\$322,630,025</b>	<b>\$347,843,543</b>	<b>\$355,704,860</b>

1—Change of fiscal year; last half only included.



# \$355,704,860 in State Motor License Fees; and Their Use, 1930

(Figures from United States Bureau of Public Roads)

## DISPOSITION OF GROSS RECEIPTS

State	Total Gross Receipts	Collection and Admin- istration <sup>1</sup>	State Highways	Local Roads	State and County Road Bonds <sup>2</sup>	For Other Purposes
Alabama.....	\$3,799,761	\$255,541	\$890,029	\$740,953	\$1,943,238	
Arizona.....	734,626		734,626			
Arkansas.....	4,283,959	69,135	2,874,910		1,339,914	
California.....	9,858,810	1,493,292	3,387,537	3,387,537		\$1,590,444
Colorado.....	1,901,230	131,723	884,754	884,753		
Connecticut.....	8,290,404	716,337	7,574,067			
Delaware.....	1,110,047		598,292		\$511,755	
Florida.....	4,813,495	288,810	3,393,539	1,131,146		
Georgia.....	4,482,257	211,212	4,271,045			
Idaho.....	1,998,290	59,949	193,834	1,744,507		
Illinois.....	18,444,247		10,468,503		7,975,744	
Indiana.....	6,346,879	326,834	6,020,045			
Iowa.....	12,693,621	612,753	11,955,810			\$125,058
Kansas.....	6,084,348	170,735	4,163,613	1,750,000		
Kentucky.....	5,547,069	275,612	4,685,774	585,683		
Louisiana.....	4,609,042	50,000	4,559,042			
Maine.....	3,166,642	316,422	1,443,300		1,266,922	\$139,998
Maryland.....	3,437,796	343,780	2,475,213			\$618,803
Massachusetts...	7,120,583	1,643,710	4,841,249		635,624	
Michigan.....	22,482,412	875,279	14,525,073	6,000,000	1,082,060	
Minnesota.....	11,062,150		6,977,428		\$4,053,439	\$31,283
Mississippi.....	3,046,393	159,818	241,324	2,645,251		
Missouri.....	10,150,000	498,517	6,078,983		3,572,500	
Montana.....	1,583,276	56,100		1,527,176		
Nebraska.....	3,804,950	116,600	1,106,505	2,581,845		
Nevada.....	373,966	14,069	189,647		170,250	
New Hampshire...	2,290,435	175,319	2,115,116			
New Jersey.....	15,382,456	1,034,187	9,362,269	4,735,000		\$251,000
New Mexico.....	1,279,623	78,063	444,577	204,265		\$552,718
New York.....	40,857,715	2,662,798	28,260,942	6,088,134		\$3,845,841
North Carolina...	6,835,743	300,000	2,847,402		3,688,341	
North Dakota...	1,958,662	77,115	1,098,674	782,873		
Ohio.....	13,287,352	507,329	6,383,546	6,396,477		
Oklahoma.....	6,536,361	256,412	2,358,132	3,921,817		
Oregon.....	9,617,930	555,627	2,295,500	3,315,488	3,451,315	
Pennsylvania.....	33,112,371	2,048,435	26,513,678		3,449,847	\$1,100,411
Rhode Island...	2,280,849	249,437	2,014,012	17,400		
South Carolina...	2,878,352	40,692	2,681,185			\$156,475
South Dakota...	2,959,913	92,574	1,462,557	1,404,782		
Tennessee.....	4,767,239	88,830	2,220,656	2,220,656		\$237,097
Texas.....	13,961,362	843,749	4,153,585	8,964,028		
Utah.....	855,584	118,084	402,100		335,400	
Vermont.....	2,392,152		2,392,152			
Virginia.....	6,493,989	212,206	6,116,058			\$165,725
Washington.....	7,616,676	187,519	5,279,245	2,062,113		\$87,799
West Virginia...	4,702,812	209,798	1,622,139		2,833,333	\$37,542
Wisconsin.....	13,083,521	700,000	6,897,506	5,486,015		
Wyoming.....	691,509		691,509			
D. of Columbia.	636,001	102,524				\$533,477
<b>Total.....</b>	<b>\$355,704,860</b>	<b>\$19,196,926</b>	<b>\$222,146,682</b>	<b>\$68,577,899</b>	<b>\$36,309,682</b>	<b>\$9,473,671</b>

<sup>1</sup>—States for which no figures are shown make state appropriations for administration. <sup>2</sup>—Payments on state bonds except as noted. <sup>3</sup>—Includes payments on county bonds \$1,026,754. <sup>4</sup>—Includes \$10,495 for refunds, remainder state highway patrol. <sup>5</sup>—Includes payments on county bonds, \$362,568. <sup>6</sup>—For refunds. <sup>7</sup>—For state highway patrol. <sup>8</sup>—For Baltimore streets. <sup>9</sup>—For payments on county bonds. <sup>10</sup>—For state general fund. <sup>11</sup>—For free bridge commission. <sup>12</sup>—For state general fund \$252,328; remainder to general county fund. <sup>13</sup>—For New York City general fund. <sup>14</sup>—For refunds \$12,492, remainder state highway patrol. <sup>15</sup>—For signals and streets as appropriated by Congress.

## Representative Concerns Using Electric Trucks

Abraham & Straus, Inc.	Drake Bakeries, Inc.	National Sugar Refining Company
American Ice Company	E. I. DuPont deNemours & Company, Inc.	National Tea Company
American Lithographic Company		New York Edison Company
B. Altman & Company	Eastman Kodak Company	Park & Tilford
American Brass Company	Elite Laundry	Pie Bakeries of America, Inc.
American Can Company		Pilgrim Laundry Company
American Locomotive Works	Marshall Field & Company	Pullman Company
American Sugar Refining Company		Purity Bakeries Corporation
Amoskeag Manufacturing Company	General Baking Company	
Armour & Company	General Electric Company	Railway Express Agency, Inc.
	Gimbel Brothers	
Beatrice Creamery	Globe Laundry	Saks & Company
Best & Company	Great Western Laundry	Schrafft's
Bloomingdale Brothers		Shredded Wheat Company
The Borden Farms Products Company	H. J. Heinz Company	Standard Brands, Inc.
Brook Brothers	Holland Laundry Company	Stern Brothers
Buffalo General Laundries	Horn & Hardart Company	Supples-Wille-Jones Milk Company
Burns Brothers	Hydrox Company	Swift & Company
Bush Terminal Company		
	Jewel Laundry, Incorporated	Tiffany & Company
Capitol Towel Company		
Cascade Laundry	Kingan & Company	United Laundries, Incorporated
Chalmette Laundry Company	King's Laundry Company	United Parcel Service
Champion Laundry	Knickerbocker Ice Company	United States Dairy Products
Chase & Sanborn		
Chicago Towel Company	Langendorf United Bakeries	Walnut Hills Laundry
Childs Company	Laundry Service Company of New Orleans	John Wanamaker
Coca Cola Company	Louis K. Liggett Company	Ward Baking Company
Consolidated Gas Company		Western Electric Company
Consolidated Laundries Corporation	R. H. Macy & Company	Westinghouse Electric and Manufacturing Company
Continental Baking Company	National Biscuit Company	White Home Laundry Company
Crane Company	National Dairy Products Corporation	Wilson & Company
	National Lead Company	

## Vocational Use of Electric Trucks

Bakeries.....	4,275	Public Utilities.....	1,325
Express and Transfer Companies.....	2,160	Department Stores.....	1,315
Dairy and Ice Cream Cos.	2,000	Laundries.....	1,205



# Gasoline Consumption by States

(Figures from American Petroleum Institute)

States	Gallons (000 omitted)		States	Gallons (000 omitted)	
	1929	1930		1929	1930
Alabama.....	178,162	172,537	Nebraska.....	224,894	228,898
Arizona.....	72,862	76,044	Nevada.....	17,813	18,615
Arkansas.....	134,606	138,632	New Hampshire...	58,323	64,743
California.....	1,253,337	1,335,556	New Jersey.....	498,064	547,977
Colorado.....	155,508	170,855	New Mexico.....	45,799	54,661
Connecticut.....	202,355	223,297	New York.....	1,000,415	1,511,997
Delaware.....	32,576	35,997	North Carolina...	265,112	250,669
Dist. of Columbia.	71,884	80,538	North Dakota.....	124,383	120,034
Florida.....	223,809	227,037	Ohio.....	953,552	975,582
Georgia.....	220,602	224,188	Oklahoma.....	316,302	323,112
Idaho.....	55,125	61,262	Oregon.....	163,672	170,169
Illinois.....	*388,659	973,208	Pennsylvania.....	924,286	928,842
Indiana.....	432,095	445,016	Rhode Island.....	77,827	88,832
Iowa.....	335,629	390,826	South Carolina...	118,596	119,213
Kansas.....	360,928	386,755	South Dakota.....	123,931	140,580
Kentucky.....	154,816	168,278	Tennessee.....	195,036	215,244
Louisiana.....	176,770	184,774	Texas.....	769,608	806,505
Maine.....	96,036	108,679	Utah.....	56,547	60,137
Maryland.....	163,309	182,348	Vermont.....	43,992	46,998
Massachusetts.....	501,909	536,083	Virginia.....	208,304	228,453
Michigan.....	785,269	792,776	Washington.....	253,457	271,167
Minnesota.....	357,904	401,440	West Virginia....	126,539	140,411
Mississippi.....	141,451	135,239	Wisconsin.....	393,396	437,878
Missouri.....	392,957	445,227	Wyoming.....	34,547	36,615
Montana.....	79,167	77,476	<b>Total.....</b>	<b>13,962,120</b>	<b>15,761,400</b>

\*Illinois tax effective on August 1, 1929.

†New York tax went into effect on May 1, 1929.

## 5.3 Per Cent Increase in Gasoline Use During 1930

(Figures from United States Bureau of Mines)

### THOUSANDS OF GALLONS

Year	Production	Imports	Exports	Domestic Consumption	Stocks Dec. 31
1921...	5,153,568	37,800	551,628	4,516,050	580,068
1922...	6,202,224	62,118	594,552	5,372,052	883,806
1923...	7,555,926	191,310	871,122	6,583,332	1,176,588
1924...	8,959,692	145,026	1,216,614	7,770,126	1,294,566
1925...	10,903,242	160,146	1,322,874	9,402,330	1,632,750
1926...	12,588,828	232,680	1,819,146	10,996,146	1,638,966
1927...	13,878,270	210,084	1,862,154	12,465,894	1,399,272
1928...	15,841,686	180,432	2,221,674	13,810,944	1,388,772
1929...	18,453,516	371,028	2,606,478	15,791,958	1,816,962
1930...	18,544,428	710,934	2,756,082	16,613,520	1,702,722

**Note**—U. S. Bureau of Mines' table includes gasoline for ALL purposes, while the A. P. I. figures cover only gasoline on which a sales tax is paid.

# Highway Expenditures by States

Including Interest on Bonds Outstanding

	STATE		COUNTY AND LOCAL		TOTAL	
	1928	1929	1928	1929	1928	1929
Alabama.....	\$19,291,199	\$18,271,180	\$8,796,537	\$9,738,324	\$28,087,736	\$28,009,717
Arizona.....	2,442,934	4,385,501	1,716,343	1,995,793	4,159,277	6,381,294
Arkansas.....	23,812,065	25,487,511	5,883,600	6,455,000	29,695,665	31,942,511
California.....	23,189,977	28,577,468	34,512,407	29,676,722	57,702,384	58,254,190
Colorado.....	6,357,124	6,361,665	4,884,585	5,435,906	11,241,709	11,797,571
Connecticut.....	16,418,545	12,751,248	3,131,470	3,349,324	19,550,015	16,100,572
Delaware.....	3,089,214	2,735,010	1,275,005	1,675,146	4,364,219	4,410,156
Florida.....	14,342,794	10,702,163	30,213,290	14,817,713	44,556,039	25,519,876
Georgia.....	12,728,478	7,038,986	13,897,756	10,096,773	26,626,234	17,135,759
Idaho.....	5,273,324	2,979,839	4,851,974	4,842,775	10,125,298	7,822,614
Illinois.....	51,472,582	37,708,842	28,276,433	28,384,484	79,749,015	66,093,326
Indiana.....	16,543,882	20,677,796	29,520,157	27,608,308	46,064,039	48,286,104
Iowa.....	34,398,120	34,772,545	23,519,090	24,775,603	57,917,210	59,548,148
Kansas.....	13,903,616	14,052,713	15,732,160	20,185,200	29,635,776	34,237,913
Kentucky.....	14,260,588	15,109,839	5,910,223	6,125,000	20,170,811	21,234,839
Louisiana.....	10,685,808	16,997,006	7,395,258	9,000,000	18,081,066	25,997,006
Maine.....	10,571,237	12,040,785	2,738,000	2,740,000	13,309,237	14,780,785
Maryland.....	10,668,257	10,979,790	5,710,116	4,060,629	14,378,373	15,040,419
Massachusetts.....	13,800,306	13,846,158	12,455,441	12,735,000	26,255,747	26,581,158
Michigan.....	24,098,127	34,512,336	43,083,110	41,397,896	67,181,286	75,910,232
Minnesota.....	18,251,107	19,740,618	23,154,500	23,506,557	41,405,607	43,247,175
Mississippi.....	6,281,170	4,682,676	19,061,594	18,560,381	25,342,764	23,243,057
Missouri.....	17,981,065	27,320,650	11,163,446	14,454,000	29,144,511	41,774,650
Montana.....	3,863,324	4,481,815	4,265,000	4,550,000	8,128,324	9,031,815
Nebraska.....	6,984,151	8,389,619	9,027,603	10,953,356	16,011,754	19,342,975
Nevada.....	2,067,329	2,646,895	626,698	635,048	2,694,027	3,281,943
New Hampshire.....	5,469,432	7,621,386	2,258,144	2,133,781	7,727,576	9,755,167
New Jersey.....	31,700,305	32,966,624	22,096,677	19,387,180	53,796,982	52,353,804
New Mexico.....	5,946,606	6,369,816	460,329	475,789	6,406,935	6,845,605
New York.....	56,618,013	62,023,618	48,276,324	45,000,000	104,894,337	107,023,618
North Carolina.....	24,675,012	20,682,110	19,614,000	16,858,980	44,289,012	37,541,080
North Dakota.....	3,564,110	4,129,072	4,311,800	4,942,250	7,875,910	9,071,322
Ohio.....	33,963,211	30,281,207	40,155,000	40,304,653	74,109,211	70,585,860
Oklahoma.....	13,250,526	11,766,255	12,057,000	12,750,000	25,307,526	24,516,255
Oregon.....	8,518,245	9,502,834	11,610,000	11,830,000	20,128,245	21,332,834
Pennsylvania.....	51,850,356	51,904,445	43,132,601	44,253,545	94,982,957	96,157,990
Rhode Island.....	4,453,685	4,949,502	923,346	929,858	5,377,031	5,879,360
South Carolina.....	18,975,851	15,372,739	6,348,242	9,051,919	25,324,093	24,424,658
South Dakota.....	5,892,738	5,060,487	7,877,320	7,843,068	13,770,058	12,903,555
Tennessee.....	19,171,577	27,740,999	9,324,880	10,443,007	28,496,457	38,184,006
Texas.....	28,710,177	33,680,701	22,500,000	23,000,000	51,210,177	56,680,701
Utah.....	3,579,854	4,106,131	1,305,672	1,237,419	4,885,526	5,343,550
Vermont.....	5,761,972	12,516,284	840,000	844,840	6,601,972	13,361,124
Virginia.....	14,238,466	13,953,848	8,783,500	8,225,280	13,021,966	22,179,128
Washington.....	11,833,500	12,734,216	9,004,000	8,975,000	20,837,500	21,709,216
West Virginia.....	13,556,758	15,872,417	11,932,600	12,163,670	25,489,358	28,036,087
Wisconsin.....	16,541,466	16,293,862	26,708,972	25,324,153	43,250,438	41,608,015
Wyoming.....	3,599,947	3,107,137	898,941	1,063,098	4,498,888	4,170,235
<b>Total.....</b>	<b>\$764,648,134</b>	<b>\$799,876,344</b>	<b>\$659,222,144</b>	<b>\$644,792,641</b>	<b>\$1,423,870,788</b>	<b>\$1,444,668,985</b>

Figures cover expenditures on construction, maintenance, interest on bonds and notes outstanding, and miscellaneous expenses, for rural road and bridge purposes.





# \$1,000,388,000 Motor Taxes in 1930

Special Levies on Motor Vehicles \$870,000,000

## SPECIAL MOTOR VEHICLE TAXES

State—Registration fees .....	\$355,704,860	
Gasoline tax .....	494,683,410	
	<hr/>	
	\$850,388,270	\$850,388,270
Municipal .....		*20,000,000
		<hr/>
Total Special Taxes .....		\$870,388,270
Personal property tax .....		*130,000,000
		<hr/>
Grand Total .....		\$1,000,388,270

\*Estimated by N. A. C. C.

## Growth of Local Bus Service in Places Over 10,000

(Figures from "Bus Transportation")

	1922	1930	% Increase
Number of places .....	819	979	19.5
Places with buses and trolleys .....	177	404	128.2
Places with buses only .....	15	222	1,380.0
Places with no local bus service .....	627	353	-43.7
Number of railway bus operators .....	52	229	340.4
Number of independent bus operators .....	2,871	1,002	-64.3
Number of buses in local service .....	*4,795	†13,348	178.4
Miles of local bus routes .....	1,563	9,500	507.8

\*Exclusive of jitneys in Spartansburg and Columbia, S. C., Atlanta and Savannah, Ga., Detroit, Mich., and St. Louis, Mo.

†Exclusive of 500 service cars operated in St. Louis, Mo.



# 95,400 Motor Buses in U. S.—1930

(Figures as of December 31st, 1930 from "Bus Transportation")

REVENUE	1926	1927	1928	1929	1930
1. City.....				12,750	13,350
2. Intercity.....				26,850	27,150
Total intrastate (1 + 2).....	39,306	41,286	42,750	39,600	40,500
3. Interstate.....	2,500	3,200	3,750	6,000	5,000
Total common carriers (1 + 2 + 3).....	41,806	44,486	46,500	45,600	45,500
4. Sightseeing.....	2,650	2,750	2,750	2,750	2,750
Total (1 + 2 + 3 + 4)	44,456	47,236	49,250	48,350	48,250
NON-REVENUE					
5. Schools*.....	32,800	35,900	40,875	42,000	45,000
6. Hotel.....	1,050	1,000	800	750	750
7. Industrial.....	1,100	1,100	1,000	1,000	1,000
8. Miscellaneous.....	400	400	400	400	400
Total (5 + 6 + 7 + 8)	35,350	38,400	43,075	44,150	47,150
Grand total.....	79,806	85,636	92,325	92,500	95,400
a. Motor carriers.....	36,650	37,750	37,932	35,640	34,684
b. Electric railways....	7,284	8,492	10,062	11,256	11,827
c. Steam railroads.....	522	994	1,256	1,454	1,759

\*4,000 or more buses in school service are operated part time as common carriers, and consequently are included in the figure for that service.

## 11,130,000,000 Bus Passenger-Miles in 1930

(Figures from "Bus Transportation")

	In Millions				
	1926	1927	1928	1929	1930
Passenger-miles (revenue buses only).....	7,825	8,800	10,050	10,835	11,130
City service.....	3,450	3,900	4,515	4,038	4,050
Intercity service.....	4,375	4,900	5,535	6,797	7,080
Passengers carried (revenue buses only).....	1,405	1,585	1,826	1,768	1,778
City service (revenue only)....	1,150	1,300	1,505	1,346	1,350
Intercity service.....	255	285	321	422	428
Passengers carried, school buses..	280	300	360	400	460
Other non-common carriers....	20	22	24.8	18.8	18.8

# Bus Census by States—1925-1930

(This is a compilation of statistics obtained as a result of actual censuses conducted by "Bus Transportation." Figures indicated for the 1930 census may be accepted as embracing approximately 92 per cent of the bus operation in the United States on December 31, 1930. Due to improvement of census machinery "Bus Transportation" has been enabled to present a more comprehensive picture of the nation's bus operations with each succeeding year.)

	1925	1926	1927	1928	1929	1930
Alabama.....	693	796	825	1,230	1,225	2,379
Arizona.....	214	458	346	387	434	608
Arkansas.....	303	300	336	587	861	1,441
California.....	3,361	3,862	3,815	3,989	4,195	4,349
Colorado.....	774	981	1,141	1,157	1,299	1,504
Connecticut.....	867	950	977	920	1,227	1,214
Delaware.....	146	171	194	221	206	211
District of Columbia.....	278	339	464	302	307	344
Florida.....	1,134	1,353	1,364	1,599	1,507	1,671
Georgia.....	644	837	971	1,020	1,484	1,505
Idaho.....	477	348	357	441	485	536
Illinois.....	1,546	2,113	2,279	2,230	2,493	2,390
Indiana.....	2,731	5,070	6,187	6,676	7,044	7,071
Iowa.....	1,301	1,408	1,451	1,602	1,990	1,952
Kansas.....	577	700	781	700	784	841
Kentucky.....	378	560	408	599	652	764
Louisiana.....	2,040	1,615	1,725	1,787	2,458	2,665
Maine.....	192	371	361	324	307	314
Maryland.....	529	654	723	895	853	1,289
Massachusetts.....	1,930	2,226	2,643	2,822	2,915	3,064
Michigan.....	1,592	2,092	2,171	2,539	2,828	2,785
Minnesota.....	930	1,617	1,575	1,814	1,800	1,978
Mississippi.....	2,027	1,822	1,876	3,176	3,208	3,227
Missouri.....	817	836	865	879	833	781
Montana.....	768	468	450	493	505	512
Nebraska.....	307	412	464	484	503	639
Nevada.....	85	99	124	206	180	151
New Hampshire.....	163	400	220	285	338	355
New Jersey.....	2,366	3,718	4,434	4,892	5,630	6,434
New Mexico.....	210	290	297	323	376	396
New York.....	.....	.....	4,051	4,416	4,456	4,720
New York (outside New York City).....	3,263	3,988	2,416	2,503	2,607	2,819
New York City.....	.....	.....	1,635	1,913	1,849	1,901
North Carolina.....	2,800	2,868	3,506	3,688	4,211	4,513
North Dakota.....	1,050	809	808	953	860	564
Ohio.....	3,930	4,234	4,476	4,765	4,740	4,882
Oklahoma.....	1,072	1,254	1,286	1,467	1,458	1,507
Oregon.....	887	694	994	831	714	840
Pennsylvania.....	2,487	3,053	3,409	3,556	3,607	3,759
Rhode Island.....	187	357	299	305	285	394
South Carolina.....	405	323	329	1,043	1,147	1,394
South Dakota.....	188	402	395	336	422	357
Tennessee.....	595	807	983	1,064	1,069	1,119
Texas.....	1,137	1,188	1,498	1,720	1,856	1,847
Utah.....	443	508	472	483	469	583
Vermont.....	198	183	181	205	266	309
Virginia.....	1,254	1,588	1,834	1,805	2,116	2,183
Washington.....	1,436	1,778	1,837	1,740	1,740	2,281
West Virginia.....	814	637	712	769	868	884
Wisconsin.....	1,128	1,674	1,416	1,303	1,228	1,272
Wyoming.....	547	578	576	689	788	847
†UNITED STATES TOTAL...	53,202	63,646	69,082	75,717	81,247	87,625

†These are actual counts, see note above.



# 44,900 Revenue

(From "Bus Transportation")

STATES	TOTAL REVENUE CARRIERS No. of Vehicles					INTERSTATE CARRIERS No. of Vehicles				
	No. of Cos.	All Veh-icles	Buses	Tour-ing Cars	Miles of Route	No. of Cos.	All Veh-icles	Buses	Tour-ing Cars	Miles of Route
<b>New England</b>										
Connecticut.....	75	743	735	8	3,191	20	100	100	....	1,000
Maine.....	33	144	110	34	1,232	5	15	15	....	300
Massachusetts.....	127	2,044	2,009	35	10,738	20	125	110	15	3,000
New Hampshire.....	33	142	127	15	1,428	3	19	19	....	103
Rhode Island.....	34	324	278	46	1,590	25	85	45	40	850
Vermont.....	66	215	167	48	1,757	17	61	56	5	342
<b>Central Atlantic</b>										
District of Columbia.....	18	321	321	....	1,275	7	50	50	....	500
Delaware.....	2	66	66	....	235	....	....	....	....	....
Maryland.....	73	641	621	20	3,900	10	25	25	....	1,000
New Jersey.....	782	5,299	5,119	180	7,398	65	1,200	1,200	....	2,000
New York.....	275	2,191	2,064	127	11,746	16	153	153	....	1,387
(outside city)										
New York City.....	475	1,873	1,873	....	3,980	15	125	125	....	2,500
Pennsylvania.....	500	2,915	2,740	175	13,053	20	100	100	....	1,700
<b>Southeast</b>										
Alabama.....	102	245	170	75	5,120	6	25	25	....	600
Florida.....	47	489	441	48	9,017	3	8	8	....	125
Georgia.....	84	367	292	75	6,153	9	25	25	....	450
North Carolina.....	65	532	452	80	6,945	15	75	45	30	1,200
South Carolina.....	30	201	151	50	4,288	1	4	4	....	396
Virginia.....	159	862	772	90	4,035	16	35	35	....	425
<b>Midwest</b>										
Illinois.....	100	1,828	1,822	6	14,226	25	250	250	....	5,000
Indiana.....	150	1,011	936	75	7,831	16	150	145	5	1,500
Iowa.....	35	360	340	20	6,300	5	60	60	....	2,000
Kentucky.....	125	645	600	45	5,573	18	100	90	10	1,000
Michigan.....	160	1,903	1,903	....	15,716	20	100	100	....	4,500
Ohio.....	275	2,266	2,166	100	15,370	20	130	130	....	3,000
West Virginia.....	68	575	520	55	5,225	20	150	130	20	1,050
Wisconsin.....	68	614	578	36	5,550	10	75	75	....	1,000
<b>Gulf Southwest</b>										
Arkansas.....	54	325	230	95	5,250	1	5	3	2	75
Louisiana.....	101	345	290	55	5,000	2	6	6	....	125
Mississippi.....	33	120	90	30	2,500	4	10	10	....	350
Missouri.....	77	697	647	50	14,496	10	110	110	....	4,000
Oklahoma.....	133	475	305	170	9,000	6	10	10	....	475
Tennessee.....	78	447	387	60	6,575	5	40	40	....	1,000
Texas.....	180	1,236	1,111	125	34,458	5	56	56	....	3,000
<b>Central Northwest</b>										
Minnesota.....	23	446	443	3	7,952	2	16	16	....	750
Montana.....	24	164	152	12	2,463	1	3	3	....	300
North Dakota.....	19	59	37	22	1,783	5	17	11	6	708
South Dakota.....	36	200	181	19	3,475	2	8	7	1	250
<b>West Mid-Continent</b>										
Colorado.....	119	1,075	927	118	10,485	9	163	105	58	6,500
Kansas.....	45	365	328	37	11,406	9	85	78	7	3,650
Nebraska.....	29	343	312	31	6,855	2	98	80	18	2,000
Wyoming.....	30	391	368	23	3,555	8	19	14	5	550
<b>Pacific Southwest</b>										
Arizona.....	76	429	312	117	7,683	9	70	60	10	5,000
California.....	312	3,030	2,630	400	19,295	15	250	250	....	10,000
Nevada.....	12	47	40	7	1,863	2	5	5	....	125
New Mexico.....	39	179	129	50	1,662	1	2	2	....	300
Utah.....	31	289	224	65	3,223	2	50	38	12	664
<b>Pacific Northwest</b>										
Idaho.....	53	189	150	39	4,140	9	25	23	2	350
Oregon.....	56	572	522	50	8,003	10	100	100	....	2,300
Washington.....	115	765	685	80	6,630	13	150	132	18	2,000
<b>B. T. Census Total ..</b>	<b>5,629</b>	<b>41,004</b>	<b>37,873</b>	<b>3,131</b>	<b>350,624</b>	<b>539</b>	<b>4,543</b>	<b>4,279</b>	<b>264</b>	<b>81,401</b>
<b>Estimated Total .....</b>	<b>*5,875</b>	<b>48,250</b>	<b>44,900</b>	<b>3,350</b>	<b>367,000</b>	<b>550</b>	<b>5,000</b>	<b>4,650</b>	<b>350</b>	<b>82,500</b>

\*Computed on basis of census with allowance for bus operations not included in actual count.

# Motor Buses

Census as of December 31, 1930



MOTOR CARRIERS No. of Vehicles				ELECTRIC R.R. AND SUBSIDIARIES				STEAM R.R. AND SUBSIDIARIES				
No. of Cos.	All Veh- icles	Buses	Tour- ing Cars	Miles of Route	No. of Cos.	Buses	Miles of Route	No. of Cos.	Buses	Miles of Route		
74	425	417	8	1,436	1	201	480	1	117	1,275	New England	
31	122	88	34	1,098	1	5	25	1	17	109	Connecticut	
105	1,188	1,153	35	8,373	13	711	1,109	2	145	1,256	Maine	
32	109	94	15	954	1	5	11	28	463	Massachusetts		
32	123	77	46	1,109	1	146	195	1	55	286	New Hampshire	
65	200	152	48	1,719	.....	.....	.....	1	15	38	Rhode Island	
											Vermont	
15	154	154	.....	1,031	3	167	239	.....	5	Central Atlantic		
1	3	3	.....	.....	1	62	157	.....	1	D. of Columbia		
69	424	404	20	1,834	3	215	1,936	1	2	130	Delaware	
775	2,725	2,545	180	3,824	6	2,544	2,988	1	30	586	Maryland	
254	1,648	1,521	127	10,665	19	532	767	2	11	314	New Jersey	
											(outside city)	
473	1,654	1,654	.....	3,857	2	177	78	42	45	New York City		
468	1,769	1,594	175	8,886	28	894	1,337	4	252	2,830	Pennsylvania	
100	229	154	75	5,001	2	14	9	2	110	Southeast		
42	408	360	48	8,950	4	81	62	1	5	Alabama		
76	271	196	75	5,761	3	82	77	5	14	Florida		
57	449	369	80	6,707	5	71	48	3	12	Georgia		
28	196	146	50	4,273	1	2	2	1	3	North Carolina		
152	606	516	90	3,711	6	253	193	1	3	South Carolina		
										Virginia		
78	1,317	1,311	6	11,633	18	466	1,270	4	45	1,323	Midwest	
136	569	494	75	6,433	14	440	1,248	2	150	Illinois		
25	167	147	20	3,963	9	162	1,313	1	31	1,024	Indiana	
120	550	505	45	5,466	4	91	98	1	4	9	Iowa	
152	938	938	.....	14,170	7	957	1,472	1	8	74	Kentucky	
250	1,353	1,253	100	13,624	24	911	1,711	1	2	25	Michigan	
62	445	390	55	4,021	5	98	654	1	32	550	Ohio	
57	262	226	36	2,940	8	326	2,077	3	26	533	West Virginia	
											Wisconsin	
49	161	66	95	3,077	2	13	17	3	151	2,156	Gulf Southwest	
98	290	235	55	4,582	3	50	48	.....	5	370	Arkansas	
31	97	67	30	2,456	2	23	44	.....	.....	.....	Louisiana	
69	403	353	50	12,699	8	189	267	.....	105	1,530	Mississippi	
130	325	155	170	8,736	3	150	264	.....	.....	.....	Missouri	
70	362	302	60	5,975	6	60	375	2	25	225	Oklahoma	
166	872	747	125	32,194	11	325	412	3	39	1,852	Tennessee	
											Texas	
19	315	312	3	7,438	2	123	160	2	8	354	Cent. Northwest	
23	159	147	12	2,459	1	5	4	.....	.....	.....	Minnesota	
17	53	31	22	1,776	2	6	7	.....	.....	.....	Montana	
36	199	180	19	3,470	.....	.....	.....	.....	1	5	North Dakota	
											South Dakota	
114	987	839	148	9,276	3	46	56	2	42	1,153	West Mid. Cont.	
40	227	190	37	10,503	5	121	135	17	768	Colorado		
26	199	168	31	4,978	2	49	41	1	95	1,836	Kansas	
30	373	350	23	3,124	.....	.....	.....	.....	18	431	Nebraska	
											Wyoming	
73	402	285	117	7,536	2	11	20	1	16	127	Pacific Southwest	
294	2,239	1,839	400	16,834	14	771	2,063	4	20	398	Arizona	
10	13	6	7	1,322	.....	.....	.....	2	34	541	California	
38	119	69	50	1,504	.....	.....	.....	1	60	158	Nevada	
28	172	107	65	1,723	3	19	81	.....	98	1,419	New Mexico	
											Utah	
53	149	110	39	2,910	.....	.....	.....	40	1,230	Pacific Northwest		
54	464	414	50	7,114	1	49	49	1	59	840	Idaho	
106	534	454	80	5,115	8	204	697	1	27	818	Oregon	
											Washington	
5,303	27,418	24,287	3,131	298,300	267	11,827	24,296	59	1,759	28,025	B. T. Census Total	
5,549	34,664	31,314	3,350	314,700	267	11,827	24,300	59	1,759	28,028	Estimated Total	

# 48,775 Buses in School Use

(Figures as of December 31st, 1930 from "Bus Transportation")

(Figures as of December 31st, 1930 from "Bus Transportation")											MISCL. INCL. R. R. IN- TER. & DUS. TRSF. BUSES		
TOTALS		SCHOOL BUSES					HOTEL TRIAL BUSES						
	No. of Buses	No. of Schools	No. of Buses	Miles of Route	Children Carried	Cost of Service	No. of Buses	No. of Buses	No. of Buses	No. of Buses	No. of Buses		
<b>New England</b>													
Connecticut.....	479	240	472	2,832	11,827	\$506,373	2	5	.....	.....	.....		
Maine.....	204	96	190	1,330	6,650	171,000	13	1	.....	.....	.....		
Massachusetts.....	1,055	442	1,035	6,727	26,910	931,500	18	1	.....	.....	.....		
New Hampshire.....	228	132	210	1,470	4,200	189,000	17	1	.....	.....	.....		
Rhode Island.....	116	55	97	850	2,545	100,000	19	.....	.....	.....	.....		
Vermont.....	142	65	125	1,407	2,560	100,500	16	1	.....	.....	.....		
<b>Central Atlantic</b>													
Dist. of Columbia.....	23	4	13	127	225	19,000	3	6	.....	.....	.....		
Delaware.....	145	47	145	1,088	4,347	156,867	.....	.....	.....	.....	.....		
Maryland.....	668	275	665	5,576	26,181	700,000	2	1	.....	.....	.....		
New Jersey.....	1,315	387	1,250	7,500	50,000	1,750,000	54	11	.....	.....	.....		
New York (outside N. Y. City).....	755	460	700	5,600	18,200	583,100	35	15	5	.....	.....		
New York City.....	28	.....	.....	.....	.....	.....	.....	28	.....	.....	.....		
Pennsylvania.....	1,019	610	1,005	6,030	20,100	567,825	2	12	.....	.....	.....		
<b>Southeast</b>													
Alabama.....	2,209	600	2,198	13,188	66,499	1,403,004	1	3	7	.....	.....		
Florida.....	1,230	260	1,130	9,040	35,000	900,000	27	68	5	.....	.....		
Georgia.....	1,213	361	1,205	10,845	35,150	662,750	6	.....	2	.....	.....		
North Carolina.....	4,061	1,293	4,045	40,450	181,141	1,929,282	3	8	5	.....	.....		
South Carolina.....	1,243	690	1,238	7,428	34,157	963,856	1	.....	4	.....	.....		
Virginia.....	1,411	675	1,405	12,375	58,824	843,000	6	.....	.....	.....	.....		
<b>Midwest</b>													
Illinois.....	568	175	300	2,700	7,500	250,500	9	9	250	.....	.....		
Indiana.....	6,135	905	6,125	85,230	145,715	3,981,250	10	.....	.....	.....	.....		
Iowa.....	1,612	357	1,600	11,200	32,000	1,040,000	9	2	1	.....	.....		
Kentucky.....	164	32	155	1,395	4,650	93,000	5	4	.....	.....	.....		
Michigan.....	882	332	862	5,172	25,860	689,600	14	6	.....	.....	.....		
Ohio.....	2,716	930	2,700	21,600	94,500	1,620,000	3	7	6	.....	.....		
West Virginia.....	364	230	360	3,600	9,000	216,000	1	3	.....	.....	.....		
Wisconsin.....	694	630	675	6,075	13,500	337,500	18	.....	1	.....	.....		
<b>Gulf Southwest</b>													
Arkansas.....	1,211	150	1,210	10,680	46,702	786,500	1	.....	.....	.....	.....		
Louisiana.....	2,375	700	2,363	16,541	87,703	1,866,463	7	1	10	.....	.....		
Mississippi.....	3,137	962	3,130	28,170	83,900	1,252,400	7	.....	.....	.....	.....		
Missouri.....	134	52	120	1,080	3,000	90,000	5	9	.....	.....	.....		
Oklahoma.....	1,202	340	1,200	18,000	48,000	882,000	2	.....	.....	.....	.....		
Tennessee.....	732	260	726	7,986	25,410	363,000	4	2	.....	.....	.....		
Texas.....	736	340	725	10,875	21,750	435,000	2	4	5	.....	.....		
<b>Central Northwest</b>													
Minnesota.....	1,535	425	1,523	9,543	31,049	1,140,859	7	4	1	.....	.....		
Montana.....	360	101	355	4,260	7,100	213,000	3	2	.....	.....	.....		
North Dakota.....	527	400	526	7,890	15,800	447,100	1	.....	.....	.....	.....		
South Dakota.....	176	43	175	1,314	3,850	119,411	1	.....	.....	.....	.....		
<b>West Mid-Cont.</b>													
Colorado.....	577	167	565	5,369	12,300	353,125	12	.....	.....	.....	.....		
Kansas.....	513	236	510	6,271	6,824	322,467	2	.....	1	.....	.....		
Nebraska.....	327	112	325	2,275	8,125	235,625	2	.....	.....	.....	.....		
Wyoming.....	479	95	479	6,227	8,622	426,000	.....	.....	.....	.....	.....		
<b>Pacific Southwest</b>													
Arizona.....	296	46	290	3,480	4,350	174,000	5	1	.....	.....	.....		
California.....	1,719	532	1,665	9,990	49,500	1,498,500	30	9	15	.....	.....		
Nevada.....	111	26	110	1,650	2,750	77,000	1	.....	.....	.....	.....		
New Mexico.....	267	92	265	3,577	6,643	230,550	1	1	.....	.....	.....		
Utah.....	359	120	350	4,200	12,250	315,000	1	2	6	.....	.....		
<b>Pacific Northwest</b>													
Idaho.....	386	65	380	5,700	9,500	180,000	2	4	.....	.....	.....		
Oregon.....	318	100	300	2,100	6,000	210,000	3	.....	15	.....	.....		
Washington.....	1,596	900	1,578	13,000	49,880	1,721,631	3	5	10	.....	.....		
<b>Total United States</b>	<b>49,752</b>	<b>16,547</b>	<b>48,775</b>	<b>451,013</b>	<b>1,478,699</b>	<b>\$34,044,138</b>	<b>390</b>	<b>236</b>	<b>351</b>	.....	.....		



# Automobile Financing

(Figures from National Association of Finance Companies)

The following tabulation represents the composite experience of a large number of representative finance companies and is based upon individual averages for the first nine months of 1928 and 1929, and for 12 months of 1930. Items marked (1) are derived from reports made by many automobile dealers, representative of the whole country, obtained through the courtesy of the National Automobile Dealers Association.

Average Direct Loss Per Repossessed Car*:	PASSENGER CARS			COMMERCIAL CARS		
	1928	1929	1930	1928	1929	1930
12 or less equal monthly payments.....	\$56	\$60	\$61	\$121	\$68	\$109
13 to 18 equal monthly payments.....	75	83	80	**	137	305
Balloon note.....	**	112	100	**	**	**

## Increases of Losses Over Standard Terms:

13 to 18 equal monthly payments.....	34%	38%	31%	**	101%	180%
Balloon note.....	**	87%	64%	**	**	**

## Percentage of Repossessions:

New cars with down payment of 33.3%.....	2.8%	2.8%	3.6%	3.5%	2.8%	2.0%
New cars with down payment of 25%.....	4.1%	5.1%	4.6%	**	3.0%	**
New cars with down payment of less than 25%.....	**	**	**	**	4.8%	**
Used cars with down payment of 40%.....	5.3%	5.3%	6.5%	3.1%	5.4%	3.1%
Used cars with down payment of 35% or less.....	10.9%	9.0%	9.8%	**	7.8%	5.6%

## Increase of Repossessions Over Standard Terms:

New cars with down payment of 25%.....	46%	82%	28%	**	7%	**
New cars with down payment of less than 25%.....	**	**	**	**	71%	**
Used cars with down payment of 35% or less.....	93%	70%	51%	**	44%	81%

## Average Amount of Note Purchased:

New cars.....	\$635	\$595	\$567	\$832	\$870	**
Used cars.....	307	296	279	395	381	**

## (1) Percentage Sold on Installments:

New Cars.....	58.1%	62.6%	62.3%	51.6%	45.6%	52.7%
Used cars.....	60.8%	65.1%	64.8%	48.3%	57.7%	61.5%
All cars.....	59.5%	64.0%	63.8%	50.4%	49.5%	55.8%

## (1) Percentage of Trade-ins and Used Car Sales:

Trade-ins on sales of new cars.....	69.4%	72.5%	75.1%	51.2%	54.3%	53.3%
Trade-ins on sales of used cars.....	39.4%	45.5%	49.1%	22.3%	31.1%	35.1%
Total trade-ins in % of new cars sold.....	115.5%	127.1%	155.5%	64.1%	72.6%	81.9%
Used cars sold in % of new cars sold.....	117.0%	128.6%	164.0%	57.8%	57.5%	81.5%
Used cars junked in % of total trade-ins.....	8.1%	9.2%	14.3%	16.4%	16.3%	16.8%

## Skips Per 1,000 Transactions:

Persons absconding.....	4.7%	5.2%	5.1%	.8%	3.5%	1.6%
-------------------------	------	------	------	-----	------	------

## Installment Paper Ratios:

	1926	1927	1928	1929	1930
Retail paper with more than 12 monthly payments.....	13.2%	12.4%	14.5%	14.9%	16.6%
Retail paper with less than standard down payment.....	9.0%	5.2%	6.1%	8.0%	11.8%
New car paper to total paper purchased.....	67.0%	73.2%	71.6%	70.0%	63.4%
Used car paper to total paper purchased.....	33.0%	26.8%	28.4%	30.0%	36.6%
Number new cars to total financed.....	48.6%	57.6%	54.9%	54.0%	46.2%
Number used cars to total financed.....	51.4%	42.4%	45.1%	46.0%	53.8%

†Used car paper per cent with recourse.....	46.0%	65.8%	66.0%	66.3%	68.5%
†Companies taking all used car paper with recourse.....	40.0%	55.6%	54.8%	56.2%	52.4%
Companies taking part used car paper with recourse.....	86.0%	92.4%	92.4%	94.1%	90.7%

\*This means amount owing minus amount received from sale.

\*\*No cases reported, or too few to justify inclusion.

†Including repurchase agreement.

# 1930 Safety



# Honor Roll

## Sixty Cities Reduce Motor Fatalities\*

(Compiled by National Safety Council from Police Departments and Motor Vehicle Bureaus)

### OVER 500,000 POPULATION

	1929 Fatalities	1930 Fatalities		1929 Fatalities	1930 Fatalities
Baltimore, Md.....	152	141	Milwaukee, Wis.....	104	90
Boston, Mass.....	117	115	New York, N. Y.....	1,220	1,163
Cleveland, Ohio.....	270	250	Philadelphia, Pa.....	345	326
Los Angeles, Calif.....	432	413	St. Louis, Mo.....	162	156

### 300,000 TO 500,000 POPULATION

Cincinnati, Ohio.....	123	122	Louisville, Ky.....	60	54
Indianapolis, Ind.....	90	86	Newark, N. J.....	120	117
Jefferson Co., Ala.....	125	100	New Orleans, La.....	123	107
Jersey City, N. J.....	64	51	Washington, D. C.....	78	73

### 100,000 TO 300,000 POPULATION

Birmingham, Ala.....	57	53	New Haven, Conn.....	34	24
Cambridge, Mass.....	21	19	Norfolk, Va.....	15	14
Dayton, Ohio.....	45	41	Reading, Pa.....	22	16
Duluth, Minn.....	28	27	Salt Lake City, Utah.....	34	30
Fall River, Mass.....	14	8	San Antonio, Texas.....	34	32
Flint, Mich.....	29	28	Spokane, Wash.....	21	15
Hartford, Conn.....	21	15	Syracuse, N. Y.....	38	25
Knoxville, Tenn.....	30	18	Tampa, Fla.....	38	26
Lowell, Mass.....	16	15	Toledo, Ohio.....	72	69
Memphis, Tenn.....	53	44	Utica, N. Y.....	22	9
New Bedford, Conn.....	12	10	Youngstown, Ohio.....	48	42

### UNDER 100,000 POPULATION

Atlantic City, N. J.....	32	14	Lakewood, Ohio.....	13	4
Battle Creek, Mich.....	13	3	Lynchburg, Va.....	9	4
Berkeley, Calif.....	18	16	Medford, Mass.....	10	8
Binghamton, N. Y.....	8	5	New Bedford, Mass.....	12	10
Brockton, Mass.....	13	10	New Britain, Conn.....	7	4
Chicopee, Mass.....	9	4	Newton, Mass.....	9	8
Decatur, Ill.....	12	7	Pawtucket, R. I.....	14	9
Evanston, Ill.....	10	7	Pittsfield, Mass.....	10	7
Fitchburg, Mass.....	5	2	Pontiac, Mich.....	15	14
Hammond, Ind.....	34	26	Quincy, Mass.....	9	4
Holyoke, Mass.....	12	10	Woburn, Mass.....	3	0

\*Collisions of automobiles with heavier vehicles and motorcycle accidents are included, but deaths from accidents occurring outside city are excluded.



# Motor Fatalities, 1920-1930

(Figures from National Safety Council)

Year	Number Automobile Fatalities†	Rate per 100,000 Population	Rate per 100,000 Registrations	Year	Number Automobile Fatalities†	Rate per 100,000 Popu- lation	Rate per 100,000 Registrations
1920...	11,061	10.4	119.8	1926...	20,945	18.0	95.2
1921...	12,355	11.4	118.1	1927...	23,126	19.6	100.0
1922...	13,660	12.4	111.6	1928...	24,937	20.8	101.8
1923...	16,432	14.7	108.9	1929...	28,282	23.3	106.7
1924...	17,566	15.5	99.8	1930...	*30,500	*24.8	*114.2
1925...	19,610	17.1	98.3				

†Does not include railroad grade crossing fatalities or motorcycle deaths.

\*Estimated by National Safety Council.

## 18.8% Reduction in Automobile Grade Crossing Fatalities 1930

(NOTE—Grade crossing fatalities as usually quoted include railroad collisions with wagons, pedestrians, etc. The following table gives all grade crossing fatalities in the first column and automobile grade crossing fatalities in the second column. Figures from Interstate Commerce Commission.)

Year	All Crossing Fatalities including Wagons, etc.	AUTOMOBILE CROSSING FATALITIES	Year	All Crossing Fatalities including Wagons, etc.	AUTOMOBILE CROSSING FATALITIES
1920.....	1,791	1,273	1927.....	2,372	1,974
1922.....	1,810	1,359	1928.....	2,568	2,165
1924.....	2,149	1,688	1929.....	2,485	2,085
			1930.....	2,020	1,695

## Total Automobile Insurance in the U. S.

(Compiled by The Insurance Year Book Service, The Spectator Company)

	Year	Net Premiums	Losses Paid†	Ratio of Losses Paid to Premiums Written
Auto Liability.....	1930	\$211,489,945	\$174,628,437	82.6
	1929	211,680,298	131,476,280	62.1
Auto Collision.....	1930	17,791,868	12,437,522	69.9
	1929	22,095,932	13,806,147	62.5
Auto Property Damage.....	1930	82,328,124	48,091,244	58.4
	1929	89,802,154	49,089,686	54.7
†Full coverage on automobiles.	1930	75,880,042	43,787,352	57.7
	1929	78,025,845	41,394,314	53.1
*Fire and Theft.....	1930	136,994,230	73,951,844	54.0
	1929	154,425,262	65,195,183	42.2
<b>Totals.....</b>	<b>1930</b>	<b>\$524,484,209</b>	<b>\$352,896,399</b>	<b>67.2</b>
	<b>1929</b>	<b>\$556,029,491</b>	<b>\$300,961,610</b>	<b>54.1</b>

\*Fire insurance companies transact all branches of automobile insurance with the exception of liability.

A great portion of their business, however, is fire and theft insurance.

†Includes all automobile business transacted by mutual companies and reciprocal and Lloyds associations whose amounts are not segregated.

Includes investigation and adjustment of claims expense but does not include agents commissions, home office and operating expenses.

## National Safety Essay and Lesson Contests

Prizes totalling \$6500 for the best essays and lessons on safety on the highway are offered to the public as follows:

**National Safety Essay Contest**—For children of grade school age. Write for particulars to the Highway Education Board, 1723 N Street, N. W., Washington, D. C.

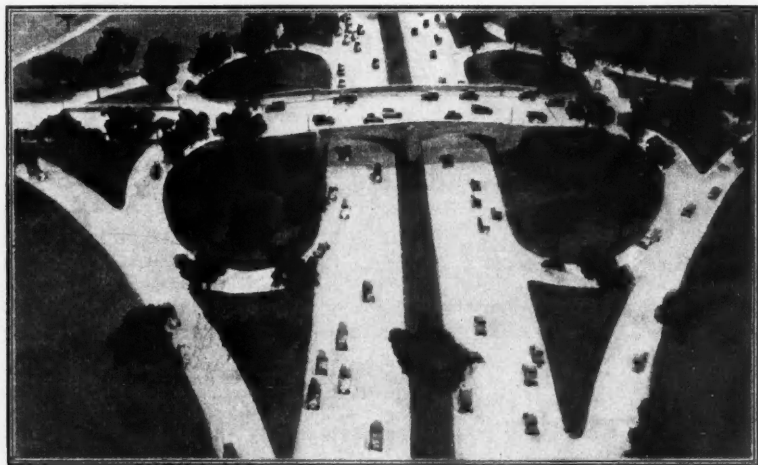
**National Safety Lesson Contest**—For teachers in grade schools. For particulars write to Highway Education Board, 1723 N Street, N. W., Washington, D. C.

Awards in these two events are provided by the National Automobile Chamber of Commerce.

**National Grange Safety Essay Contest**—An annual Safety Essay Contest for Grange children is conducted by the National Grange. Prizes are awarded by National Automobile Chamber of Commerce. For particulars write to L. J. Taber, Master, National Grange, 970 College Avenue, Columbus, Ohio.

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## Model of Grade Separation and Ramps on Mount Vernon Memorial Highway



The Memorial Highway from Washington to Mount Vernon, at the south end of the Highway Bridge across the Potomac, will have a grade separation plan and system of ramps distributing traffic in all directions **without left turns or cross traffic.**

# Uniform Traffic Code and Ordinance Proposed

by National Conference on Street and Highway Safety

Under the auspices of the Third National Conference on Street and Highway Safety the Model Municipal Traffic Ordinance has been revised and printed. Copies of this Ordinance, which has been substantially adopted by a number of cities, are available free of charge from the National Conference offices, 1615 H Street, Washington, D. C.

A proposed Uniform Vehicle Code, in four parts, providing for certificate of title; motor vehicle registration; driver's license; and rules of the road, was approved by the same body in 1930. The Code has been substantially adopted in several states. Copies are available free of charge from the National Conference offices.

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## No Basis for Toll Roads

*Whereas:* The free use of the public highway is a fundamental principle of government.

*Whereas:* Motor vehicle owners of the United States through special taxes are today largely meeting the costs of the construction of these highways, *and*

*Whereas:* So-called express highways are simply a step in the further improvement of our public highway system which will be found necessary in those localities where traffic is heavy and congestion great,

*Be It Resolved:* That the National Automobile Chamber of Commerce opposes any effort to place control of any part of the public highways in the hands of private promoters, *and*

*Be It Further Resolved:* That the National Automobile Chamber of Commerce emphatically supports the principle that **the public highways shall be kept forever free to the general public.**

*Voted by directors of National Automobile Chamber of Commerce, February 1, 1928.*

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## Public Should Control Toll Bridges

*Whereas:* The construction and maintenance of highways is a public task undertaken through funds contributed by taxpaying groups and particularly by the motor users of the country, *and*

*Whereas:* These funds are not always sufficient to permit of immediate construction of bridges made necessary by the growth in motor vehicle traffic:

*Resolved:* That wherever toll bridges become necessary these should be financed from public bond issues and should remain as toll bridges only until such time as the costs of the improvement have been defrayed, and should forever after be free to all, *and*

*Be It Further Resolved:* That if public funds cannot be made available, the right to build and operate toll bridges should be granted to private parties only after a most careful and searching inquiry and with definite understandings that such franchises shall be limited in nature and shall continue only for such periods as will provide a reasonable return. Thereafter bridges shall become public property and be free to all. In all cases the construction and operation of such bridges should be under the control of state highway departments whose duty it shall be to see that the public interest shall be fully safeguarded.

*Voted by directors of National Automobile Chamber of Commerce, March 2, 1927.*

# 7,947,000 Miles of

(Compiled by Foreign Construction Division, Bureau of Foreign and Domestic Commerce.)

Country	Road Mileage	Area Sq. Mi.	Area to 1 Mile of Road	Auto-mob-iles	Automobiles to 1 Mile of Road
<b>AMERICA</b>					
Alaska.....	1,620	590,884	364.7	2,500	1.5
Argentina.....	131,697	1,153,417	8.8	364,737	2.8
Bolivia.....	3,584	613,899	171.3	2,184	.6
Brazil.....	75,497	3,276,358	43.4	194,000	2.6
British Guiana.....	325	89,480	275.3	1,410	4.3
British Honduras.....	65	8,598	132.3	207	3.2
British West Indies.....	9,395	11,997	1.3	17,977	1.9
Canada.....	390,060	3,729,665	9.6	1,168,188	3.0
Chile.....	24,414	290,160	11.9	32,996	1.4
Colombia.....	19,261	495,522	25.7	16,000	.8
Costa Rica.....	1161	23,000	9.7	2,281	1.0
Cuba.....	1,990	44,218	22.2	50,106	25.2
Dominican Republic.....	686	19,332	28.2	3,853	5.6
Ecuador.....	1,390	118,627	85.3	1,717	1.2
French Guiana.....	28	34,740	1,240.7	100	3.6
French West Indies.....	583	1,073	1.8	3,450	5.9
Guatemala.....	1,527	42,364	27.7	3,097	2.0
Haiti.....	1,072	10,207	9.5	2,996	2.8
Honduras.....	361	46,262	128.1	1,090	3.0
Mexico.....	62,137	767,258	12.3	74,300	1.2
Netherland West Indies.....	173	403	2.3	2,002	11.6
Newfoundland.....	620	42,734	68.9	2,510	4.1
Nicaragua.....	350	49,213	140.6	1,004	2.9
Panama (including Canal Zone).....	679	32,942	48.5	6,404	9.4
Paraguay.....	3,684	97,722	26.5	1,637	.4
Peru.....	12,002	566,912	47.2	14,615	1.2
Porto Rico.....	1,080	3,435	3.2	12,491	11.6
Salvador.....	1,605	13,176	8.2	2,330	1.5
United States.....	3,024,233	3,026,789	1.0	26,653,450	8.8
Uruguay.....	22,487	72,172	3.2	45,975	2.0
Venezuela.....	2,211	393,977	178.2	17,325	7.8
Virgin Islands.....	179	132	.7	608	3.4
<b>America, Total.....</b>	<b>3,795,156</b>	<b>15,666,668</b>	<b>4.1</b>	<b>28,703,540</b>	<b>7.6</b>
<b>EUROPE</b>					
Aegean Islands.....	626	976	1.6	not available	not available
Albania.....	1,566	17,374	11.1	1,204	.8
Austria.....	18,140	32,368	1.8	34,583	1.9
Azores.....	840	922	1.1	534	.6
Belgium.....	18,894	11,753	.6	139,650	7.4
Bulgaria.....	9,576	39,824	4.2	3,701	.4
Cyprus.....	2,920	3,584	1.2	1,900	.7
Czechoslovakia.....	44,830	54,198	1.2	58,400	1.3
Danzig.....	1,112	754	.7	2,147	1.9
Denmark.....	31,703	16,609	.5	100,625	3.2

(Continued on



# Highways in World

Figures as of January 1, 1930. Mileage of city streets not included.)

Country	Road Mileage	Area Sq. Mi.	Area to 1 Mile of Road	Auto- mobiles to 1 Mile of Road
Estonia.....	14,424	18,358	1.3	2,795
Finland.....	29,337	150,222	5.1	33,140
France.....	405,028	212,736	.5	1,296,167
Germany.....	217,479	182,252	.8	642,500
Gibraltar.....	15	2	.1	613
Greece.....	6,680	49,167	7.4	17,850
Hungary.....	37,047	35,911	1.0	19,052
Iceland.....	1,243	39,709	32.0	1,240
Irish Free State.....	46,462	26,592	.6	37,404
Italy.....	114,129	119,733	1.1	241,463
Latvia.....	22,796	25,402	1.1	2,969
Lithuania.....	27,543	21,490	.8	1,929
Luxemburg.....	2,545	999	.4	8,607
Malta and Gozo.....	328	122	.4	1,979
Netherlands.....	15,534	13,246	.9	100,537
Northern Ireland.....	12,992	5,237	.4	24,664
Norway.....	23,343	125,016	5.4	41,837
Poland.....	141,040	149,220	1.1	34,806
Portugal.....	13,884	35,499	2.6	28,580
Rumania.....	66,353	114,341	1.7	35,982
Russia.....	776,712	8,241,921	10.6	24,000
Spain.....	54,114	191,993	3.5	172,277
Sweden.....	81,026	173,154	2.1	136,827
Switzerland.....	9,233	15,945	1.7	71,916
United Kingdom.....	179,286	89,041	.5	1,427,825
Yugoslavia.....	24,314	96,134	4.0	11,500
<b>Europe, Total.....</b>	<b>2,453,094</b>	<b>10,311,804</b>	<b>4.2</b>	<b>4,761,203</b>
<b>AFRICA</b>				
Algeria.....	21,753	847,000	38.9	45,100
Anglo-Egyptian Sudan.....	225	1,014,400	4,552.9	2,820
Angola.....	15,170	484,800	32.0	1,500
Belgian Congo.....	8,886	918,000	103.3	4,850
British East Africa.....	31,571	766,714	24.3	15,224
British Somaliland.....	834	68,000	81.5	52
British Southwest Africa.....	not available	322,768	not available	3,620
British West Africa.....	20,098	529,434	26.3	14,129
Canary Islands.....	278	2,807	10.1	5,790
Cyrenaica.....	1,487	360,980	242.8	not available
Egypt.....	3,965	383,000	96.6	27,675
Eritrea.....	2,033	45,754	22.5	346
Ethiopia.....	2,458	350,000	142.4	568
French Equatorial Africa.....	10,505	1,164,017	110.8	910
French West Africa.....	14,912	1,247,191	83.7	7,038
Italian Somaliland.....	5,278	155,000	29.4	428
Liberia.....	234	43,000	183.9	300
Madagascar.....	3,705	241,094	67.1	2,831

following pages)

†Asiatic Russia included under Europe.



# 7,947,000 Miles of Highways in World

(Continued from two preceding pages)

Country	Road Mileage	Area Sq. Mi.	Area to 1 Mile of Road	Auto- mobiles to 1 Mile of Road
Madeira.....	497	314	.6	830
Mauritius.....	634	720	1.1	2,393
Morocco.....	3,914	218,525	55.8	18,687
Mozambique.....	5,809	428,132	73.7	1,407
Portuguese Guinea.....	1,740	13,940	8.0	not available
Seychelles.....	45	156	3.5	14
South Africa (not Union).....	8,506	730,370	85.9	11,135
South Africa (Union of).....	85,598	427,347	5.0	145,129
Spanish Guinea.....	10	10,036	1,003.6	not available
Tripolitania.....	1,025	900,000	878.1	45,342
Tunisia.....	7,117	48,300	6.8	13,741
<b>Africa, Total.....</b>	<b>258,287</b>	<b>11,721,799</b>	<b>45.4</b>	<b>331,859</b>
<b>ASIA</b>				
Afghanistan.....	1,561	257,000	164.6	450
Arabia.....	1,055	1,000,000	985.8	1,653
British Malaya.....	7,146	52,113	7.3	37,500
Ceylon.....	15,911	25,332	1.6	19,982
China.....	34,810	4,282,000	123.0	35,489*
Chosen.....	10,767	85,227	7.9	3,501
French Indo-China.....	20,418	247,457	12.1	18,407
*India, British and Punjab.....	225,280	1,094,300	4.9	153,111
Iraq.....	4,800	143,250	29.8	4,560
Japan.....	659,215	175,024	.3	89,382
Macao.....	18	44	2.4	not available
Netherland East Indies.....	36,175	733,642	20.3	81,528
Palestine.....	1,256	9,000	7.2	2,433
Persia.....	7,953	628,000	79.0	8,327
Philippine Islands.....	7,854	115,026	14.7	34,643
Siam.....	654	200,148	306.0	7,550
Syria.....	5,420	60,000	11.1	8,742
Turkey.....	19,500	494,538	25.4	9,500
<b>Asia, Total.....</b>	<b>1,059,793</b>	<b>9,602,101</b>	<b>9.1</b>	<b>516,758</b>
<b>AUSTRALIA, NEW ZEALAND AND ISLANDS IN THE PACIFIC</b>				
Australia.....	329,662	2,974,581	9.0	581,310
British Pacific Islands.....	150	17,445	116.3	284
Fiji.....	427	7,083	16.6	1,141
French Oceania.....	240	10,068	42.0	420
Guam.....	66	210	3.2	379
Hawaii.....	1,717	6,449	3.8	45,044
Naurau.....	.....	.....	8	not available
New Zealand.....	48,433	104,576	2.2	173,812
Samoa (American).....	30	60	2.0	52
Western Samoa.....	135	1,235	9.2	365
<b>Australia, New Zealand and Islands in the Pacific, Total</b>	<b>380,860</b>	<b>3,121,715</b>	<b>8.2</b>	<b>802,807</b>
<b>WORLD MILEAGE</b>				
Americas.....	3,795,156	15,666,668	4.1	28,703,540
Africa.....	258,287	11,721,799	45.4	331,859
Asia.....	1,059,793	9,602,101	9.1	516,758
Europe.....	2,453,094	10,311,804	4.2	4,761,203
Australia, etc.....	380,860	3,121,715	8.2	802,807
<b>World, Total.....</b>	<b>7,947,190</b>	<b>50,424,087</b>	<b>6.3</b>	<b>35,116,167</b>

\*Does not include Indian States; automobile registration includes all India. †In addition 2,014 miles of trails. ‡Includes Cyrenaica.

# Inter-American Highway



The map shows the degree of completion of the Inter-American Highway as reported at a conference of the Inter-American Highway Commission in Panama City during March 1931.

This highway is the first section of a route which will eventually connect the United States with the countries of South America.

It is expected that the section from Nueva Laredo to Mexico City will be completed and open for traffic sometime during 1932.

## 94% of Stolen Cars are Recovered

(Reports for 28 Cities, Compiled by National Automobile Dealers Association, 1928, 1929 and 1930 Figures from American Automobile Association)

Years	Stolen	Recovered*	Not Recovered	% Recovered*	% Not Recovered
1918.....	27,445	21,673	5,772	79%	21%
1919.....	33,508	24,740	8,768	74%	26%
1920.....	30,046	21,273	8,778	71%	29%
1921.....	37,554	26,517	11,037	71%	29%
1922.....	25,334	27,240	8,094	77%	23%
1923.....	39,612	32,384	7,228	82%	18%
1924.....	57,331	47,484	9,847	83%	17%
1925.....	77,174	66,420	10,754	86%	14%
1926.....	95,225	85,114	10,111	89%	11%
1927.....	95,083	87,186	7,897	91.7%	8.3%
†1928.....	74,546	69,196	5,350	92.8%	7.2%
1929.....	42,530	39,483	3,047	92.6%	7.4%
1930.....	31,660	29,883	1,777	94.4%	5.6%

\*1928 figures cover 26 cities; 1929 and 1930 cover 43 cities.

†The ratio of automobiles recovered to those stolen is somewhat higher than an actual survey of the United States as a whole would reveal, since this compilation covers only a limited number of cities. For example, cars may be stolen in some other cities than those covered in this survey and yet the credit for the recovery is given to these cities.

# 50,409 Dealers in United States

(Figures from Chilton Class Journal Company, January 1, 1931)

STATES	Total Dealers	Passenger Car Dealers (Total)	Truck Dealers Total	Dealers Handling Both Passenger Cars and Trucks	Truck Dealers (Exclusive)	Garage (Storage)	Repair Shops (Independent) and Dealers' Service Stations	Retail Supply Stores and Supply Departments	Total Retail Trade Names, Duplication Eliminated
Alabama.....	473	458	320	305	15	265	899	843	1,044
Arizona.....	216	205	118	107	11	163	392	403	478
Arkansas.....	429	425	306	302	4	570	691	832	994
California.....	2,244	2,107	1,340	1,203	137	2,259	6,741	5,812	7,752
Colorado.....	631	618	359	346	13	617	1,316	996	1,422
Connecticut.....	644	619	285	260	25	295	1,281	1,100	1,494
Delaware.....	78	74	32	28	4	70	152	111	189
District of Columbia.....	74	62	31	19	12	78	214	116	286
Florida.....	482	461	267	246	21	190	1,103	1,091	1,199
Georgia.....	593	575	404	386	18	304	1,169	755	1,275
Idaho.....	325	314	214	203	11	264	516	490	561
Illinois.....	2,984	2,907	1,375	1,298	77	2,650	5,948	4,290	6,866
Indiana.....	1,545	1,494	698	647	51	913	3,198	3,004	3,464
Iowa.....	1,937	1,904	1,213	1,180	33	2,431	3,267	2,475	3,579
Kansas.....	1,524	1,482	968	926	42	1,161	2,573	1,943	2,966
Kentucky.....	799	771	485	457	28	459	1,566	1,218	1,703
Louisiana.....	407	394	258	245	13	342	842	744	960
Maine.....	451	443	217	209	8	242	516	327	1,072
Maryland.....	540	516	246	222	24	431	958	688	1,039
Massachusetts.....	1,302	1,247	569	514	55	1,113	2,743	1,471	3,470
Michigan.....	2,174	2,128	1,215	1,169	46	3,464	4,140	3,853	4,895
Minnesota.....	1,868	1,835	1,156	1,123	33	2,080	3,050	2,899	3,426
Mississippi.....	489	481	345	337	8	290	847	841	995
Missouri.....	1,423	1,372	811	760	51	1,579	3,150	1,824	3,570
Montana.....	470	455	292	277	15	538	784	686	887
Nebraska.....	1,251	1,232	826	807	19	809	1,922	1,457	2,173
Nevada.....	119	118	76	75	1	104	174	166	202
New Hampshire.....	281	275	130	124	6	232	397	354	651
New Jersey.....	1,482	1,396	664	578	86	1,382	3,527	2,471	4,345
New Mexico.....	198	196	132	130	2	263	387	387	436
New York.....	3,810	3,590	1,869	1,649	220	2,416	8,472	4,982	10,560
North Carolina.....	736	716	468	448	20	274	1,617	1,292	1,684
North Dakota.....	791	770	534	513	21	617	1,046	1,021	1,258
Ohio.....	2,973	2,855	1,484	1,366	118	4,759	6,383	5,064	7,374
Oklahoma.....	911	893	582	564	18	749	1,769	1,436	2,024
Oregon.....	520	507	294	281	13	1,190	1,429	1,166	1,637
Pennsylvania.....	3,784	3,617	1,698	1,531	167	4,342	7,037	5,651	8,200
Rhode Island.....	231	217	114	100	14	184	529	409	689
South Carolina.....	348	344	242	238	4	95	807	586	872
South Dakota.....	733	710	486	463	23	689	1,174	964	1,330
Tennessee.....	605	574	410	379	31	331	1,333	1,088	1,464
Texas.....	2,131	2,079	1,286	1,234	52	1,669	5,293	3,685	5,889
Utah.....	237	227	148	138	10	182	517	472	613
Vermont.....	250	244	147	141	6	134	625	211	709
Virginia.....	867	830	530	493	37	269	1,947	1,525	2,190
Washington.....	859	822	448	411	37	1,574	2,291	1,970	2,703
West Virginia.....	723	690	422	389	33	304	1,545	1,322	1,794
Wisconsin.....	2,215	2,161	1,218	1,164	54	1,074	3,306	3,117	3,826
Wyoming.....	252	248	156	152	4	195	373	372	441
<b>Total, United States.....</b>	<b>50,409</b>	<b>48,658</b>	<b>27,888</b>	<b>26,137</b>	<b>1,751</b>	<b>46,605</b>	<b>102,556</b>	<b>79,980</b>	<b>118,713</b>
Canada.....	2,457	2,398	1,714	1,655	59	3,040	3,942	3,512	4,330



# 4,668 Parts and Accessory Wholesalers

(Figures from Chilton Class Journal Company, January 1, 1931)

States	Replacement Parts	Electrical Parts	Shop and Garage Equipment	Accessories, Supplies and Tools Specialties	Duplication Eliminated	Total Names Listed
Alabama.....	39	19	15	22	24	44
Arizona.....	20	10	9	8	13	26
Arkansas.....	23	12	11	13	14	24
California.....	278	151	76	124	189	371
Colorado.....	42	26	14	21	39	59
Connecticut.....	67	35	28	38	74	90
Delaware.....	6	3	5	4	5	7
District of Columbia.....	14	7	8	10	11	22
Florida.....	61	44	26	33	51	81
Georgia.....	51	25	22	26	35	58
Idaho.....	21	14	10	18	20	28
Illinois.....	205	129	83	116	192	268
Indiana.....	119	76	54	66	103	153
Iowa.....	74	66	37	41	77	108
Kansas.....	72	40	33	40	53	91
Kentucky.....	42	28	27	31	40	56
Louisiana.....	43	24	19	25	35	54
Maine.....	22	9	12	12	29	31
Maryland.....	36	16	19	18	33	54
Massachusetts.....	139	88	60	80	126	188
Michigan.....	124	58	47	68	100	164
Minnesota.....	56	38	24	28	55	87
Mississippi.....	23	14	9	15	21	29
Missouri.....	103	72	48	53	96	148
Montana.....	23	12	13	17	23	33
Nebraska.....	52	33	25	23	40	64
Nevada.....	3	2	2	2	3	4
New Hampshire.....	12	6	6	6	10	15
New Jersey.....	96	58	38	61	79	136
New Mexico.....	6	4	2	4	5	8
New York.....	325	207	151	196	336	499
North Carolina.....	56	37	25	22	41	68
North Dakota.....	11	8	9	10	12	15
Ohio.....	237	129	76	105	194	329
Oklahoma.....	64	39	31	41	54	74
Oregon.....	47	31	17	34	36	70
Pennsylvania.....	236	135	95	136	206	343
Rhode Island.....	25	17	11	17	19	33
South Carolina.....	27	19	15	19	24	35
South Dakota.....	18	12	11	10	16	22
Tennessee.....	46	30	20	21	33	55
Texas.....	157	102	76	96	129	201
Utah.....	19	15	10	13	20	27
Vermont.....	15	10	9	9	13	18
Virginia.....	50	22	22	23	42	61
Washington.....	89	46	29	53	71	134
West Virginia.....	46	28	24	30	42	62
Wisconsin.....	84	61	41	57	78	113
Wyoming.....	8	3	3	5	7	8
<b>Total, United States.....</b>	<b>3,432</b>	<b>2,070</b>	<b>1,457</b>	<b>1,923</b>	<b>2,968</b>	<b>4,668</b>
Canada.....	174	123	93	105	191	245
Cuba.....	2	1	0	0	1	3
Hawaiian Islands.....	10	8	7	7	10	11
Panama.....	2	2	1	0	2	2
Philippine Islands.....	1	1	0	1	1	1
West Indies.....	1	0	1	1	1	1
<b>Total.....</b>	<b>190</b>	<b>135</b>	<b>102</b>	<b>114</b>	<b>206</b>	<b>263</b>

# 5,677,500 Motor Vehicles on Farms

(The Farm Journal—Department of Market Analysis, as of January 1, 1930\*)

State	Passenger Cars	Trucks	Motor Vehicles†	Tractors	State	Passenger Cars	Trucks	Motor Vehicles†	Tractors
Texas...	357,000	42,600	399,600	33,468	N. D....	83,000	10,300	93,300	27,318
Ohio...	229,500	42,500	272,000	52,166	S. C....	76,500	8,300	84,800	4,839
Ill....	229,000	34,000	263,000	65,716	Mont...	64,000	8,500	72,500	9,631
Iowa...	230,000	28,400	258,400	59,038	Ore....	62,000	8,500	70,500	9,253
Penna...	198,000	42,000	240,000	34,728	La....	60,000	10,200	70,200	5,500
Wisc...	198,500	35,000	233,500	52,636	W. Va..	61,000	7,500	68,500	3,359
N. Y....	187,500	43,500	231,000	45,139	Colo....	57,800	9,600	67,400	9,356
Minn...	198,000	28,500	226,500	41,858	Fla....	46,000	14,500	60,500	5,521
Mo....	196,000	23,900	219,900	19,820	Md....	50,000	9,500	59,500	6,948
Kans...	185,000	22,800	207,800	52,000	Ida....	56,000	2,900	58,900	4,000
Ind....	181,000	26,600	207,600	35,439	N. J....	31,500	12,400	43,900	7,689
Mich...	179,500	21,600	201,100	35,409	Mass...	30,700	13,000	43,700	4,251
Calif...	160,000	35,000	195,000	50,000	Maine...	32,500	7,100	39,600	3,229
Okl....	165,500	17,500	183,000	21,253	Utah....	31,000	4,000	35,000	1,345
Nebr...	148,000	20,000	168,000	32,383	Conn...	20,500	6,500	27,000	2,692
N. C....	136,500	25,100	161,600	14,394	Vt....	22,300	3,800	26,100	3,021
Va....	115,000	24,000	139,000	11,188	Wyo....	21,000	2,800	23,800	2,034
Ga....	108,500	15,400	123,900	7,304	N. H....	18,700	4,600	23,300	1,037
Ky....	108,500	11,300	119,800	8,641	N. M....	19,500	3,600	23,100	1,834
Ala....	97,500	13,500	111,000	4,486	Ariz...	13,500	2,700	16,200	1,907
Tenn...	89,500	9,100	98,600	8,408	Del....	10,000	3,200	13,200	1,320
Miss...	83,000	15,500	98,500	3,356	Nev....	5,000	1,000	6,000	323
S. D....	87,500	10,500	98,000	27,226	R. I....	4,300	1,000	5,300	614
Ark....	86,000	8,400	94,400	6,000					
Wash...	79,000	15,000	94,000	7,085	U. S. ...	4,910,300	767,200	5,677,500	846,162

†Does not include tractors.

\*Latest figures available; U. S. Census of Agriculture for 1930 enumerating motor vehicles on farms is not yet available.

## Farm Automobile Registrations by Years

United States	Passenger Cars	Trucks	All Motor Vehicles
1919.....	2,146,512	139,169	2,285,681
1922.....	3,146,860	266,140	3,413,000
1923.....	3,289,630	285,250	3,574,880
1924.....	3,453,159	367,926	3,821,085
1925.....	3,853,526	478,956	4,332,482
1926.....	4,028,640	499,782	4,528,422
1927.....	4,408,470	598,654	5,007,124
1928.....	4,729,600	697,300	5,426,900
1929.....	4,910,300	767,200	5,677,500

## 77,585 Motor Vehicles in U. S. Postal Service

(Figures from United States Post Office Department)

Government-owned trucks in cities.....	7,520
Contract trucks in cities.....	3,559
Motor vehicles used by rural carriers.....	38,951
Motor vehicles used on mail messenger routes.....	15,730
Motor vehicles used on star routes.....	11,788
Motor vehicles used on Government-operated star routes.....	37
<b>Grand total motor vehicles.....</b>	<b>77,585</b>



# 1930 Parts, Accessory and Tire Business

(Parts figures from Motor and Equipment Association))

(Tire figures from The Rubber Manufacturers Association, Inc.)

Original Equipment of parts, tires, etc.....		\$535,644,970
Parts, units and accessories.....	\$392,832,720	
Rubber tires and tubes.....	142,812,250	
Replacements of parts, tires, etc.....		\$939,618,222
Parts, units, accessories and service equipment.....	\$511,181,472	
Rubber tires, tubes and repair materials.....	428,436,750	
<b>Total Parts and Tire Business.....</b>		<b>\$1,475,263,192</b>

## Wholesale Value of Automobile Tire Shipments

(Figures represent estimates for entire industry based on actual reports from 92% of the industry, compiled by The Rubber Manufacturers Association, Inc.)

Year	Pneumatic Casings	Inner Tubes	Solids and Cushions	Auto Tires Sundries and Fabrics	Total
1921...	\$454,604,000	\$63,965,000	\$23,790,000	\$17,200,000	\$559,559,000
1922...	470,301,000	69,230,000	30,974,000	17,205,000	587,707,000
1923...	488,670,000	78,840,000	32,922,000	21,550,000	621,982,000
1924...	508,001,000	90,660,000	30,078,000	23,340,000	652,079,000
1925...	672,028,000	127,859,000	44,393,000	29,700,000	873,980,000
1926...	739,158,000	132,490,000	39,236,000	33,120,000	944,004,000
1927...	679,072,000	108,225,000	36,076,000	33,200,000	856,573,000
1928...	676,692,000	103,102,000	26,841,000	33,000,000	839,635,000
1929...	629,100,000	90,090,000	18,700,000	29,850,000	767,740,000
1930...	466,766,000	67,497,000	10,157,000	26,829,000	571,249,000

## Rubber Tire Production and Shipments

(Figures from The Rubber Manufacturers Association, Inc.)

	Production		Shipments	
	1929	1930	1929	1930
High Pressure Casings.....	18,470,229	8,629,830	20,184,137	9,967,597
Balloon Casings.....	54,837,333	42,348,143	53,837,041	43,673,788
Solids and Cushions.....	545,792	255,350	570,372	313,422
Inner Tubes.....	73,417,181	52,420,010	75,297,737	54,940,293

## Commercial Vehicles Pay \$270,000,000 Taxes, 1930

Motor truck license fees.....	*\$ 79,058,000
Motor truck gas taxes.....	†116,612,000
Common carrier bus license and gas taxes.....	‡31,200,000
<b>Total Special Taxes.....</b>	<b>\$226,870,000</b>
Estimated personal property taxes, municipal levies, etc.....	\$43,000,000
<b>TOTAL.....</b>	<b>\$269,870,000</b>

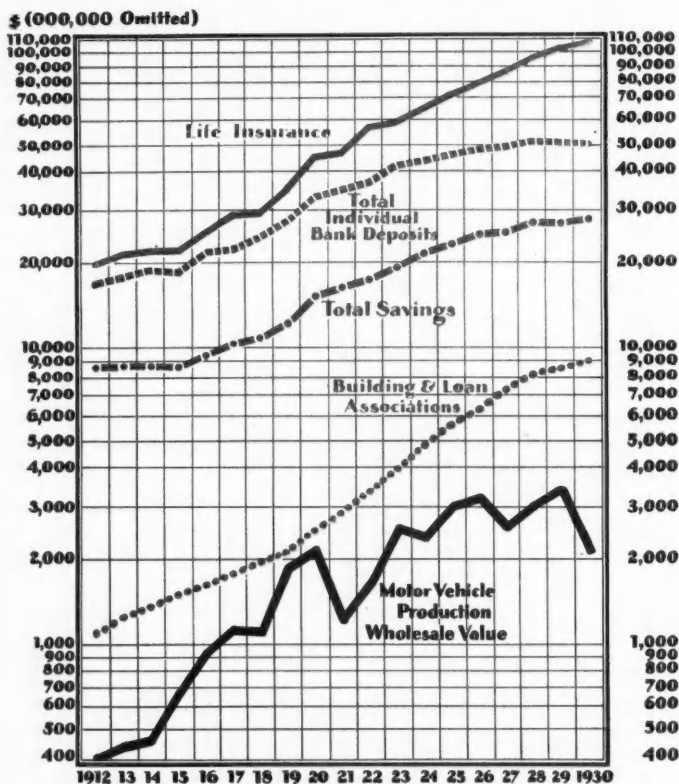
\*Based on payment of \$62,343,473 in license fees in 34 states and District of Columbia.

†Based on estimated annual consumption of 1,000 gallons, at average tax of 3.35 cents a gallon.

‡From National Association of Motor Bus Operators.

§Estimated by National Automobile Chamber of Commerce.

# Growth in Savings and Bank Deposits Compared with Motor Production



(All Figures for United States only)

Years	Savings Deposits*	Individual Deposits*	Building and Loan Asso. Assets	Life Insurance in force	Wholesale Value of Motor Vehicle Production
1913.	\$8,548,345,000	\$18,122,480,000	\$1,248,479,139	\$20,520,598,372	\$443,902,000
1917.	10,875,602,000	22,831,023,000	1,769,142,175	27,116,690,770	1,274,488,449
1921.	16,500,663,000	34,232,612,000	2,890,764,621	45,983,400,333	1,201,371,847
1926.	24,696,192,000	47,472,118,000	6,334,103,807	79,644,487,109	3,041,127,139
1927.	26,090,902,000	49,062,021,000	7,179,000,000	87,022,000,000	2,584,801,515
1928.	28,412,961,000	51,199,264,000	8,016,000,000	95,206,000,000	3,013,621,881
1929.	28,261,490,000	50,853,119,000	8,695,000,000	103,146,440,000	3,419,784,669
1930.	28,538,533,000	50,641,433,000	9,000,000,000	108,500,000,000	2,034,835,213

\*American Bankers Association.

# 29,541,607 Motorists at National Forests

## 92% of 1930 Visitors Travel by Automobiles

(Figures from United States Forest Service)

### NUMBER OF PERSONS BY MODES OF TRAVEL

States	Automobiles	Railroads, trolleys, etc.	Hikers	All others	Total
Alabama.....	24,000	.....	500	2,000	26,500
Alaska.....	18,600	3,400	6,500	39,600	68,100
Arizona.....	2,897,002	26,311	3,570	6,546	2,933,429
Arkansas.....	22,900	.....	300	2,100	25,300
California.....	15,597,853	1,120,870	112,112	33,807	16,864,642
Colorado.....	1,910,027	390,661	14,703	25,269	2,340,660
Florida.....	33,003	.....	.....	1,000	34,003
Idaho.....	408,811	5,820	4,120	8,539	427,290
Michigan.....	82,835	1,000	600	51	84,486
Minnesota.....	141,285	3,950	430	560	146,225
Montana.....	963,995	36,389	11,323	15,217	1,026,924
Nebraska.....	16,446	100	.....	.....	16,546
Nevada.....	25,250	1,400	280	214	27,144
New Hampshire.....	1,884,500	22,000	16,500	5,000	1,928,000
New Mexico.....	1,218,122	12,041	4,552	23,156	1,257,871
North Carolina.....	271,064	719	3,650	1,607	227,040
Oklahoma.....	183,905	.....	950	2,500	187,355
Oregon.....	1,382,237	218,751	16,892	9,501	1,627,381
Pennsylvania.....	12,000	600	300	200	13,100
South Dakota.....	248,427	12,250	1,122	1,161	262,960
Tennessee.....	69,703	5,572	3,175	5,100	83,550
Utah.....	507,629	13,120	5,947	12,673	539,369
Virginia.....	26,400	1,100	1,150	300	28,950
Washington.....	1,209,092	28,875	9,714	5,438	1,253,119
West Virginia.....	30,000	.....	.....	.....	30,000
Wisconsin.....	20,400	.....	50	.....	20,450
Wyoming.....	336,121	23,339	2,413	12,248	374,121
<b>Total.....</b>	<b>29,541,607</b>	<b>1,928,268</b>	<b>220,853</b>	<b>213,787</b>	<b>31,904,515</b>

## 779,275 Cars Visit National Parks, 1930

(Figures from National Park Service)

Year	Total Visitors	Number of Cars	Year	Total Visitors	Number of Cars
1917.....	.....	54,692	1924.....	1,422,353	315,916
1918.....	.....	53,966	1925.....	1,760,512	368,212
1919.....	.....	97,721	1926.....	1,930,865	406,248
1920.....	.....	128,074	1927.....	2,354,643	557,079
1921.....	.....	175,825	1928.....	2,522,188	595,236
1922.....	.....	197,105	1929.....	2,880,597	689,945
1923.....	1,280,886	271,482	1930.....	2,774,561	779,275

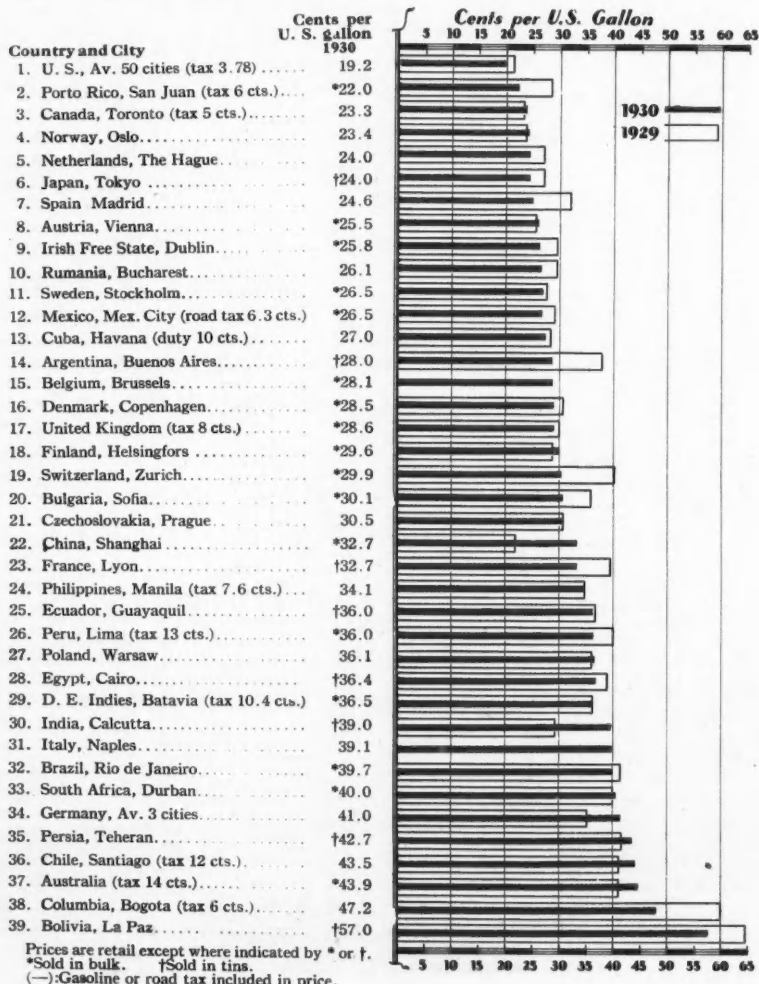


# World Gasoline Prices by Countries

(Figures from Minerals and Transportation Divisions, Department of Commerce)

## THIRD QUARTER 1930 AND LAST QUARTER 1929

In making comparisons among countries due consideration should be given to factors making for inequalities of prices, such as, distance from source of supply, quantity consumed, transportation costs, import duties, excise taxes, distribution and marketing costs and quality of product.



# 149 Passenger Car Assembly Plants in World

(Figures from Chilton Class Journal Company)

**82 in United States and 67 in Foreign Countries**

## Passenger Car Assembly Plants in United States

Manufacturing and Assembly	No. of Plants	Assembly Only	No. of Plants	Assembly only (Cont.)	No. of Plants
1. Detroit, Mich.....	11	1. Atlanta, Ga.....	2	21. Los Angeles, Cal.....	1
2. Cleveland, Ohio.....	3	2. Buffalo, N. Y.....	2	22. Louisville, Ky.....	1
3. Indianapolis, Ind.....	3	3. Kansas City, Mo.....	2	23. Memphis, Tenn.....	1
4. Lansing, Mich.....	3	4. St. Louis, Mo.....	2	24. Milwaukee, Wis.....	1
5. Flint, Mich.....	2	5. Cambridge, Mass.....	1	25. New Orleans, La.....	1
6. Toledo, Ohio.....	2	6. Charlotte, N. C.....	1	26. Norfolk, Va.....	1
7. Auburn, Ind.....	1	7. Chester, Pa.....	1	27. N. Tarrytown, N.Y.....	1
8. Buffalo, N. Y.....	1	8. Chicago, Ill.....	1	28. Norwood, Ohio.....	1
9. Butler, Pa.....	1	9. Cincinnati, Ohio.....	1	29. Oakland, Cal.....	1
10. Connersville, Ind.....	1	10. Cleveland, Ohio.....	1	30. Oklahoma City, Okla.....	1
11. Dearborn, Mich.....	1	11. Columbus, Ohio.....	1	31. Omaha, Neb.....	1
12. Grand Rapids, Mich.....	1	12. Dallas, Tex.....	1	32. Philadelphia, Pa.....	1
13. Hagerstown, Md.....	1	13. Denver, Col.....	1	33. Pittsburgh, Pa.....	1
14. Kenosha, Wis.....	1	14. Des Moines, Iowa.....	1	34. Portland, Ore.....	1
15. Milwaukee, Wis.....	1	15. Edgewater, N. J.....	1	35. San Francisco, Cal.....	1
16. Oakland, Cal.....	1	16. Houston, Tex.....	1	36. Seattle, Wash.....	1
17. Pontiac, Mich.....	1	17. Indianapolis, Ind.....	1	37. Somerville, Mass.....	1
18. Racine, Wis.....	1	18. Jacksonville, Fla.....	1	38. Twin Cities, Minn.....	1
19. Rochester, N. Y.....	1	19. Janesville, Wis.....	1		
20. Springfield, Mass.....	1	20. Long Beach, Cal.....	1		
21. South Bend, Ind.....	1				
22. Syracuse, N. Y.....	1				
<b>Total Manufacturing</b>	<b>40</b>			<b>Assembly only</b>	<b>42</b>
				<b>Total Domestic</b>	<b>82</b>

## American Assembly Plants in Foreign Countries

Country	No. of Plants	Country	No. of Plants	Country	No. of Plants
1. Canada.....	13	10. Denmark.....	2	19. Spain.....	1
2. Australia.....	11	11. South Africa.....	2	20. Straits Settlements.....	1
3. England.....	5	12. Chile.....	1	21. Sweden.....	1
4. Germany.....	5	13. France.....	1	22. Turkey.....	1
5. India.....	5	14. Italy.....	1	23. Uruguay.....	1
6. New Zealand.....	4	15. Japan.....	1		
7. Belgium.....	3	16. Java.....	1		
8. Brazil.....	3	17. Mexico.....	1		
9. Argentine.....	2	18. Poland.....	1		
				<b>Total, Foreign</b>	<b>67</b>
				<b>Domestic and Foreign...</b>	<b>149</b>



# Raw Materials Used in

## Automobile Industry Largest Purchaser of Several Commodities

Forms of Steel or Iron	% used by Automobiles	Rank as Consumer
Strips.....	57.0%	First
Bars.....	30.5%	First
Sheets.....	25.8%	First
Malleable iron.....	53.0%	First

Commodity	% used by Automobiles	Rank as Consumer
Gasoline.....	85.0%	First
Rubber.....	82.6%	First
Plate glass.....	68.7%	First
Nickel.....	30.0%	First
Lead.....	26.0%	First

## Raw Materials Used

	Amount Used in Manufacturing and Repairs
*Steel (gross tons).....	4,600,000
Production of finished rolled steel.....	29,600,000
Per cent used in automobile industry.....	15.5%
†Iron, malleable (tons).....	343,000
Production.....	646,000
Per cent used in motor vehicles.....	53%
Rubber (long tons).....	307,790
Total consumption of crude rubber.....	372,627
Per cent used in motor vehicles.....	82.6%
Plate glass (square feet).....	72,710,000
Production of polished plate glass.....	105,824,074
Per cent used in motor vehicles.....	68.7%

\*Figures from Iron Age.

†Malleable Iron Research Institute. No figures are available for gray iron used in automobile industry.

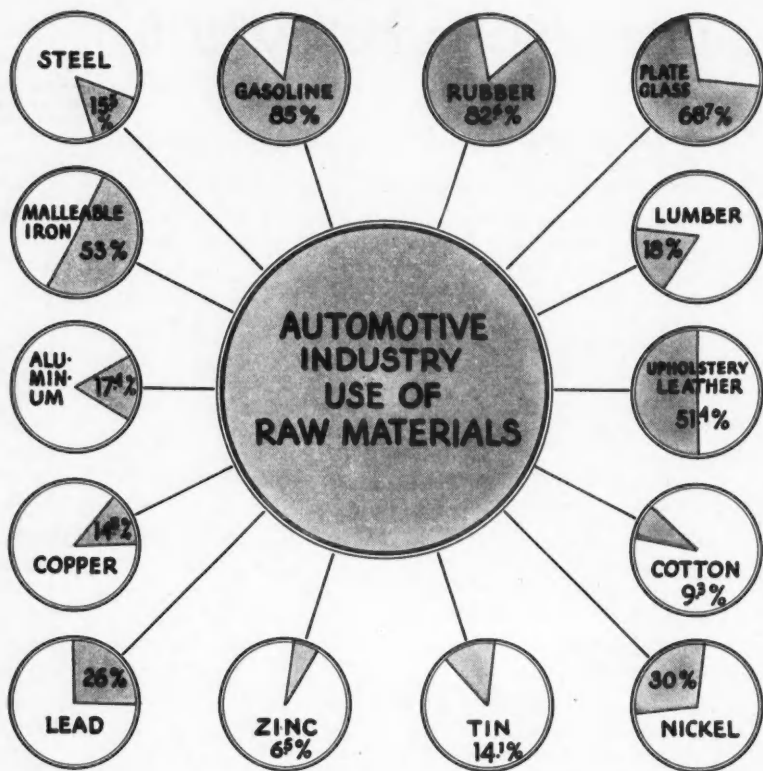
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# Automobile Industry, 1930

	Amount Used in Manufacturing and Repairs
Lumber, hardwood (board feet).....	765,000,000
Production of hardwoods.....	4,250,000,000
Per cent used in motor vehicles.....	18%
Leather, upholstery (square feet).....	14,380,000
Production of upholstery leather.....	27,960,000
Per cent used in motor vehicles.....	51.4%
Aluminum (tons).....	20,000
Production.....	115,000
Per cent used in motor vehicles.....	17.4%
Copper (tons).....	102,000
Total production.....	690,000
Per cent used.....	14.8%
Tin (long tons).....	11,000
Total deliveries in United States.....	78,225
Per cent used in motor vehicles.....	14.1%
Lead (tons).....	160,000
Production from domestic ores.....	615,000
Per cent used in motor vehicles.....	26%
Zinc (tons).....	33,000
Production from domestic ores.....	504,000
Per cent used in motor vehicles.....	6.5%
Nickel (pounds).....	10,900,000
United States consumption.....	35,500,000
Per cent used in motor vehicles.....	30%
‡Cotton (bales).....	503,770
United States consumption.....	5,383,574
Per cent used in tire and motor vehicle manufacturing.....	9.3%
Lumber, softwood (board feet).....	180,000,000
‡Cloth, upholstery (yards).....	35,400,000
‡Top and side curtain material (yards).....	13,500,000
‡Paint and lacquer (gallons).....	11,746,000
‡Hair and padding (pounds).....	44,771,000
Gasoline (gallons).....	14,130,000,000
Domestic consumption total (Bureau of Mines).....	16,613,520,000
Per cent used by motorists.....	85%
Lubricating oil (gallons).....	495,000,000
Antifreeze solutions (gallons).....	45,000,000
Brake lining (asbestos and cotton) linear feet.....	123,300,000

‡United States motor vehicle manufacturing use only.



For actual amounts of raw materials used in the automobile industry together with figures on total production of the raw material, see pages eighty-two and eighty-three.

## Employment and Wages in Motor Vehicle Factories\*

Year	Number	Wages	Year	Number	Wages
1920.....	244,700	\$490,160,000	1925.....	361,442	\$649,668,829
1921.....	186,000	299,098,780	1926.....	375,281	657,724,859
1922.....	253,104	395,707,531	1927.....	324,665	585,823,733
1923.....	318,098	579,002,686	1928.....	402,138	712,567,699
1924.....	329,563	547,215,700	1929.....	427,459	775,478,810
			1930.....	325,124	647,588,438

\*Figures cover United States motor vehicle manufacturers only; they do not include parts, accessory body or tire factories.



## 5,056,000 Employed in Automobile Industry in U. S.

### EMPLOYED DIRECTLY

Motor vehicle factory workers.	325,124
Parts and accessory factory workers.....	170,000
Tire factory workers.....	65,000
Motor vehicle dealers and salesmen.....	300,000
Supplies, accessories, tires and parts dealers and salesmen..	150,000
Garage and repair shop employees.....	380,000
Professional chauffeurs.....	600,000
Professional truck drivers.....	2,150,000
Automobile financing and insurance.....	12,000
<b>Total directly employed....</b>	<b>4,152,124</b>

### EMPLOYED INDIRECTLY

Gasoline refining and retailing.	400,000
Iron and steel workers.....	60,000
Copper, lead, tin, nickel, aluminum workers.....	15,000
Railroad workers.....	75,000
Lumber and woodworkers.....	8,000
Electric power and coal workers	6,000
Highways.....	300,000
Miscellaneous other raw material suppliers.....	40,000
<b>Total indirectly employed..</b>	<b>904,000</b>
<b>GRAND TOTAL.....</b>	<b>5,056,124</b>

## Capital Invested in Automobile Manufacturing\*

Year	Cars	Trucks	Total
1919.....	\$784,660,761	\$230,782,577	\$1,015,443,338
1920.....	897,953,600	306,425,000	1,204,378,600
1921.....	1,134,166,000	289,334,000	1,423,500,000
1922.....	1,154,103,335	302,546,620	1,456,649,954
1923.....	1,281,364,300	290,358,100	1,571,722,400
1924.....	1,373,372,426	317,677,686	1,691,050,112
1925.....	1,503,290,062	384,738,748	1,888,028,810
1926.....	1,646,589,759	442,908,566	2,089,498,325
1927.....	1,643,989,116	436,668,548	2,080,657,664
1928.....	1,578,021,207	387,289,301	1,965,310,508
1929.....	1,518,714,814	437,972,847	1,956,687,661
1930.....	1,442,275,653	438,532,580	1,880,808,233

\*The above figures represent net tangible assets of United States motor vehicle manufacturers, and do not include parts, accessory, body and tire manufacturers.



## 20 Percent of All Retail Sales Are Automotive Products

(Figures based on U. S. Census of Distribution reports for calendar year 1929, now available for 644 cities)

Number of cities reported.....	644
Number of automotive retail stores.....	69,948
Number of employees (full time).....	275,429*
Salaries and wages.....	\$441,257,450†
Inventories (at cost).....	354,892,088

Automotive Sales Groups	Retail Sales (Net)	Percent
Motor vehicles, new and used.....	\$2,784,922,143	67.6%
Accessory, tire and battery shops.....	353,123,674	8.6%
Filling stations.....	720,024,336	17.5%
Garages—repairs, gas, oil, etc.....	235,102,175	5.7%
Motorcycle, bicycle, and supply shops.....	10,457,715	.3%
Other automotive establishments.....	11,871,912	.3%
<b>Total Automotive Retail Sales (net).....</b>	<b>\$4,115,501,955</b>	<b>100.0%</b>
Net retail sales, ALL stores, including automotive.....	\$20,373,400,042	

### Automotive Group Second Largest Food Items Hold Lead by Small Margin

Total automotive retail sales.....	\$4,115,501,955
Total food retail sales.....	4,627,971,451
Number of cities in which automotive sales exceeded food.....	322
Number of cities in which food sales surpassed automotive.....	322
Other items than food surpassed automotive sales in 81 cities.	

Average sales per store.....	\$58,900
Ratio of inventory to sales.....	8.6%
Average number of employees per store.....	3.94
Average wage per employee.....	\$1,604‡
Percentage of sales paid in wages.....	10.7%
Average sales per employee.....	\$14,960

The U.S. census of *wholesale* sales covering 54 cities todate shows that the wholesale automotive business represented 5.1% of the total wholesale volume, 6% of all employees and 9% of all salaries and wages paid in the wholesale field.

\*Includes only employees working full time and does not include proprietors or part-time employees.

†Wages of part-time employees and salaries of proprietors are included. Separate reports on these have not yet been published.

‡Due to the preliminary nature of these early reports sufficient detail has not been given to warrant too much credence in the computed averages. For example, the number of employees reported does not include the proprietors or part-time employees, but the total payroll does include the salaries or wages of proprietors and part-time workers. Several of the computed averages are therefore in error to a certain degree.



# Value of All Automotive Products

United States and Canada, 1920-1930

Year	Wholesale Value	Year	Wholesale Value
1920.....	\$3,594,814,620	1926.....	\$4,696,945,620
1921.....	2,212,068,420	1927.....	4,247,800,743
1922.....	2,558,207,389	1928.....	4,740,270,904
1923.....	2,804,952,716	1929.....	5,142,315,542
1924.....	3,168,588,146	1930.....	3,330,775,532
1925.....	4,210,174,963		

## Motor Vehicles Owned by U. S. Government 1930

*Not a complete list of Departments*

Department	Passenger Cars	Trucks	Buses	Total
Post Office.....	.....	.....	.....	77,585
Army.....	.....	.....	.....	11,300
Navy.....	216	1,419	7	1,642
Marine Corps.....	94	*600	.....	694
Commerce.....	138	551	2	691
Agriculture.....	650	*345	.....	995
Justice.....	872	153	.....	1,025
Treasury.....	30	49	.....	79
Labor.....	340	31	.....	371
Interstate Commerce Commission.....	.....	2	.....	2
Pan-American Union.....	1	1	.....	2

\*Estimated, January 1, 1931.

## Legislative Pamphlets Available

Pamphlets on motor vehicle legislation and regulations have been published by, and may be obtained without charge from, the:

**MOTOR VEHICLE CONFERENCE COMMITTEE**  
366 Madison Avenue at 46th Street, New York City

- 1. Special Taxation for Motor Vehicles.**  
Containing digests of state motor vehicle tax laws, and sound and equitable principles which should underlie such laws.
- 2. State Restrictions on Motor Vehicle Sizes, Weights and Speeds.**  
Containing existing restrictions in the different states, and recommended restrictions.
- 3. The Uniform Motor Bus Specifications Code.**  
Containing also discussion of specification features not included in the Code.



# Organization of National Automobile Chamber of Commerce

## COMMITTEES

### ADVERTISING COMMITTEE

EDWARD S. JORDAN, <i>Chairman</i>	Jordan Motor Car Company
JOHN M. HOWARD	General Motors Truck Company
CLIFF KNOBLE	Chrysler Motors, Incorporated
W. W. LEWIS	General Motors Corporation
F. H. MCKINNEY	Packard Motor Car Company
F. W. MUNRO	Hupp Motor Car Corporation
M. F. RIGBY	The Studebaker Corporation

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B. C. BUDD	Packard Motor Car Company
RUFUS S. COLE	Hupp Motor Car Corporation
ALLEN C. GERMANN	Hudson Motor Car Company
W. LEDYARD MITCHELL	Chrysler Motors, Incorporated
R. G. HUDSON	Reo Motor Car Company
J. D. MOONEY	General Motors Export Company
HOWARD S. WELCH	The Studebaker Corporation
GEORGE F. BAUER, <i>Secretary</i>	

### HIGHWAYS COMMITTEE

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A. J. BROSEAU	Mack Bros. Motor Car Company
GEORGE M. GRAHAM	Willys-Overland Company
EDWARD S. JORDAN	Jordan Motor Car Company
WILLIAM E. METZGER	Federal Motor Truck Company
PYKE JOHNSON, <i>Secretary</i>	

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A. BARIT	Hudson Motor Car Company
D. E. BATES	Reo Motor Car Company
R. P. FOHEY	Chrysler Motors, Incorporated
A. G. RUMPF	The Studebaker Corporation
OTTO SANZENBACHER	Willys-Overland Company
MILTON TIBBETTS	Packard Motor Car Company
J. S. MARVIN, <i>Secretary</i>	

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E. L. CORD	Auburn Automobile Company
H. P. DOOLITTLE	International Harvester Company
D. C. FENNER	Mack Bros. Motor Car Company
RICHARD S. ARMSTRONG, <i>Secretary</i>	

(Continued on following page)

# Organization of National Automobile Chamber of Commerce

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C. F. KETTERING.....General Motors Corporation  
CHARLES W. NASH.....The Nash Motors Company  
S. A. MILES, *Secretary*

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T. R. DAHL.....The White Motor Company  
D. C. FENNER.....Mack Bros. Motor Car Company  
WALTER S. GRAVES.....Dodge Brothers, Inc.  
R. G. HAYSEN.....Sterling Motor Truck Company  
W. F. MCAFEE.....International Harvester Company  
ROBERT P. PAGE, JR.....The Autocar Company  
MARTIN L. PULCHER.....Federal Motor Truck Company  
PAUL W. SEILER.....General Motors Truck Company  
EDWARD F. LOOMIS, *Secretary*

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J. C. BOYERS.....Ward Motor Vehicle Company

## PATENTS COMMITTEE

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JAMES McEVoy.....General Motors Corporation  
H. S. VANCE.....The Studebaker Corporation  
GEORGE C. ARVEDSON, *Department Manager*

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S. A. MILES, *Manager*

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EDWARD S. JORDAN.....Jordan Motor Car Company  
ROBERT P. PAGE, JR.....The Autocar Company  
NORMAN C. DAMON, *Secretary*

(Continued on following page)

# Organization of National Automobile Chamber of Commerce

(Continued from preceding page)

## TRADE PROMOTION COMMITTEE

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ROY D. CHAPIN.....Hudson Motor Car Company  
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A. R. ERSKINE.....The Studebaker Corporation  
EDSEL FORD.....Lincoln Motor Company  
ALVAN MACAULEY.....Packard Motor Car Company  
CHARLES W. NASH.....Nash Motors Company

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ALFRED H. SWAYNE.....General Motors Corporation  
J. S. MARVIN, *Department Manager*

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B. B. BACHMAN.....The Autocar Company  
GEORGE A. GREEN.....General Motors Truck Company  
A. W. SCARRATT.....International Harvester Company  
E. M. STERNBERG.....Sterling Motor Truck Company

## REPRESENTATIVES IN CHAMBER OF COMMERCE OF U. S. A.

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ALFRED H. SWAYNE.....General Motors Corporation

## REPRESENTATIVE ON HIGHWAY EDUCATION BOARD

ROY D. CHAPIN.....Hudson Motor Car Company

## REPRESENTATIVES IN INTERNATIONAL CHAMBER OF COMMERCE

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ROY D. CHAPIN.....Hudson Motor Car Company  
J. D. MOONEY.....General Motors Corporation

## REPRESENTATIVES ON NATIONAL INDUSTRIAL CONFERENCE BOARD

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ALFRED H. SWAYNE.....General Motors Corporation

## EDUCATIONAL DEPARTMENT

STEPHEN D. BRYCE, JR., *Manager*

## STATISTICAL DEPARTMENT

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DETROIT OFFICE  
KENNETH A. MOORE

PARIS OFFICE  
JOHN V. LAWRENCE

WASHINGTON OFFICE  
PYKE JOHNSON



# Members of National Automobile Chamber of Commerce

## Passenger Car Manufacturers

Trade Name	Member	Address
Auburn.....	Auburn Automobile Company.....	Auburn, Ind.
Buick.....	Buick Motor Company.....	Flint, Mich.
Cadillac.....	Cadillac Motor Car Company.....	Detroit, Mich.
Chevrolet.....	Chevrolet Motor Company.....	Detroit, Mich.
Chrysler.....	Chrysler Corporation.....	Detroit, Mich.
Cord.....	Auburn Automobile Company.....	Auburn, Ind.
Cunningham.....	Jas. Cunningham Son & Company.....	Rochester, N. Y.
De Soto.....	De Soto Motor Corporation.....	Detroit, Mich.
Dodge Brothers.....	Dodge Brothers Corporation.....	Detroit, Mich.
Duesenberg.....	Duesenberg, Inc.....	Indianapolis, Ind.
duPont.....	duPont Motors, Inc.....	Springfield, Mass.
Durant.....	Durant Motors, Inc.....	Lansing, Mich.
Elcar.....	Elcar Motor Company.....	Elkhart, Ind.
Essex.....	Hudson Motor Car Co.....	Detroit, Mich.
Franklin.....	H. H. Franklin Manufacturing Co.....	Syracuse, N. Y.
Gardner.....	Gardner Motor Company.....	St. Louis, Mo.
Graham.....	Graham-Paige Motors Corporation.....	Detroit, Mich.
Hudson.....	Hudson Motor Car Company.....	Detroit, Mich.
Hupmobile.....	Hupp Motor Car Corporation.....	Detroit, Mich.
Jordan.....	Jordan Motor Car Company.....	Cleveland, Ohio
Kissel.....	Kissel Motor Car Company.....	Hartford, Wis.
LaSalle.....	Cadillac Motor Car Company.....	Detroit, Mich.
Lincoln.....	Lincoln Motor Company.....	Detroit, Mich.
Locomobile.....	Locomobile Company of America.....	Bridgeport, Conn.
Marmon.....	Marmon Motor Car Company.....	Indianapolis, Ind.
Nash.....	Nash Motors Company.....	Kenosha, Wis.
Oakland.....	Oakland Motor Car Company.....	Pontiac, Mich.
Oldsmobile.....	Olds Motor Works.....	Lansing, Mich.
Packard.....	Packard Motor Car Company.....	Detroit, Mich.
Peerless.....	Peerless Motor Car Corporation.....	Cleveland, Ohio
Pierce-Arrow.....	Pierce-Arrow Motor Car Company.....	Buffalo, N. Y.

(Membership list continued on following page)

## Members of National Automobile Chamber of Commerce (Continued)

Trade Name	Member	Address
Plymouth.....	Chrysler Corporation.....	Detroit, Mich.
Pontiac.....	Oakland Motor Car Company.....	Pontiac, Mich.
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
Ruxton.....	Moon Motor Car Company.....	St. Louis, Mo.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
Stutz.....	Stutz Motor Car Co. of America, Inc.....	Indianapolis, Ind.
Willys.....	Willys-Overland Company.....	Toledo, Ohio
Willys-Knight.....	Willys-Overland Company.....	Toledo, Ohio
Windsor.....	Moon Motor Car Company.....	St. Louis, Mo.

## Taxicab Manufacturers

Checker.....	Checker Cab Mfg. Corp.....	Kalamazoo, Mich.
Dodge.....	Dodge Brothers Corporation.....	Detroit, Mich.
Elcar.....	Elcar Motor Company.....	Elkhart, Ind.
Yellow Cab.....	General Motors Truck Corporation.....	Pontiac, Mich.

## Motor Truck Manufacturers

Acme.....	Acme Motor Truck Corporation.....	Cadillac, Mich.
Atterbury.....	Atterbury Motor Car Company.....	Buffalo, N. Y.
Autocar.....	Autocar Company.....	Ardmore, Pa.
Chevrolet.....	Chevrolet Motor Company.....	Detroit, Mich.
Commerce.....	Relay Motors Corporation.....	Lima, Ohio
Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Diamond T.....	Diamond T Motor Car Company.....	Chicago, Ill.
Dodge Brothers.....	Dodge Brothers Corporation.....	Detroit, Mich.
Dover.....	Hudson Motor Car Company.....	Detroit, Mich.
Duplex.....	Duplex Truck Company.....	Lansing, Mich.
Fageol.....	Fageol Motors Company.....	Oakland, Calif.
Fargo.....	Fargo Motor Corporation.....	Detroit, Mich.
Federal.....	Federal Motor Truck Company.....	Detroit, Mich.
Fisher.....	Standard Motor Truck Company.....	Detroit, Mich.
Garford.....	Relay Motors Corporation.....	Lima, Ohio
G. M. C.....	General Motors Truck Corporation.....	Pontiac, Mich.
Hahn.....	Selden-Hahn Motor Truck Corp.....	Allentown, Pa.
International.....	International Harvester Company.....	Chicago, Ill.
Kleiber.....	Kleiber Motor Company.....	San Francisco, Calif.
LaFrance-Republic.....	LaFrance-Republic Corporation.....	Alma, Mich.
Maccar.....	Maccar Truck Company.....	Scranton, Pa.
Mack.....	Mack Brothers Motor Car Co.....	New York, N. Y.
Moreland.....	Moreland Motor Truck Company.....	Los Angeles, Calif.
Paige.....	Graham-Paige Motors Corp.....	Detroit, Mich.
Pierce-Arrow.....	Pierce-Arrow Motor Car Company.....	Buffalo, N. Y.
Relay.....	Relay Motors Corporation.....	Lima, Ohio
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
Rugby.....	Durant Motors Incorporated.....	Lansing, Mich.

(Membership list continued on following page)

## Members of National Automobile Chamber of Commerce (Continued)

Trade Name	Member	Address
Schacht.....	Le Blond-Schacht Truck Co.....	Cincinnati, Ohio
Selden.....	Selden-Hahn Motor Truck Corporation.....	Allentown, Pa.
Service.....	Relay Motors Corporation.....	Lima, Ohio
Standard.....	Standard Motor Truck Company.....	Detroit, Mich.
Sterling.....	Sterling Motor Truck Company.....	Milwaukee, Wis.
Stewart.....	Stewart Motor Corporation.....	Buffalo, N. Y.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
United.....	Acme Motor Truck Company.....	Cadillac, Mich.
Walker.....	Walker Vehicle Co.....	Chicago, Ill.
Walter.....	Walter Motor Truck Company.....	Long Island City, N. Y.
Ward.....	Ward Motor Vehicle Company.....	Mt. Vernon, N. Y.
White.....	White Motor Company.....	Cleveland, Ohio
Willys.....	Willys Overland Company.....	Toledo, Ohio
Willys-Knight.....	Willys-Overland Company.....	Toledo, Ohio

## Motor Bus Manufacturers

Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Dodge.....	Dodge Brothers Corporation.....	Detroit, Mich.
Fageol.....	Fageol Motors Corporation.....	Oakland, Calif.
Fargo.....	Dodge Brothers Corporation.....	Detroit, Mich.
Federal.....	Federal Motor Truck Company.....	Detroit, Mich.
Garford.....	Relay Motors Corporation.....	Lima, Ohio
International.....	International Harvester Company.....	Chicago, Ill.
Kleiber.....	Kleiber Motor Company.....	San Francisco, Calif.
Mack.....	Mack Brothers Motor Car Co.....	New York, N. Y.
Relay.....	Relay Motors Corporation.....	Lima, Ohio
Reo.....	Reo Motor Car Company.....	Lansing, Mich.
Selden.....	Selden Truck Corporation.....	Allentown, Pa.
Stewart.....	Stewart Motor Corporation.....	Buffalo, N. Y.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
White.....	White Motor Company.....	Cleveland, Ohio
Yellow.....	General Motors Truck Corporation.....	Pontiac, Mich.
Willys-Knight.....	Willys-Overland Company.....	Toledo, Ohio

## Ambulance and Funeral Vehicle Manufacturers

Cadillac.....	Cadillac Motor Car Company.....	Detroit, Mich.
Cunningham.....	Jas. Cunningham Son & Company.....	Rochester, N. Y.
S. & S.....	Sayers & Scovill Company.....	Cincinnati, Ohio
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.

## Motor Fire Apparatus Manufacturers

American-La France.....	American-La France & Foamite Corp.....	Elmira, N. Y.
Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Mack.....	Mack Brothers Motor Car Co.....	New York, N. Y.
Selden.....	Selden-Hahn Truck Corporation.....	Allentown, Pa.
White.....	White Motor Company.....	Cleveland, Ohio

# Associations of the Automobile Industry

## National Automobile Chamber of Commerce

**GENERAL OFFICES:** Marlin-Rockwell Building, 366 Madison Avenue, at 46th Street, New York, N. Y. Offices at Detroit, Washington and Paris.

**PRESIDENT:** Alvan Macauley, President, of Packard Motor Car Company.

**GENERAL MANAGER:** Alfred Reeves.

The National Automobile Chamber of Commerce is the successor of the National Association of Automobile Manufacturers, organized in November, 1900, and of the Automobile Board of Trade.

**OBJECT:** To serve as a clearing house of research and information on subjects concerning motor transportation, and to represent the automobile industry in all matters where cooperative effort is proper, efficient, and economical.

Its purposes may be illustrated by listing some of its current activities, which are directed by the committee members:

Cross-licenses more than 1700 patents.

Manages New York and Chicago National Automobile Shows.

Conducts researches on all matters related to automobile industry.

Studies railroad rates, and appears in rate cases for automobile industry.

Publishes "Facts and Figures of the Automobile Industry," and numerous special studies on motor transport topics.

Advocates improved highways located according to economic needs.

Endows annual contests which offer more than 500 prizes annually to school teachers and children for the best lessons and essays on traffic and safety.

Maintains regional information offices in Detroit, Washington and Europe.

Provides lecturers on motor transportation in all parts of the world.

Acts as contact for the automobile industry with insurance rate makers.

Promotes development of motor car, motor truck, motor bus, and taxicab transportation.

Conducts Motor Truck Educational Bureau which does research and distributes information on driver training, sound taxation principles, management and other phases of commercial transport. In this connection, maintains a speakers' bureau.

Fosters state and local organizations of truck owners.

Advocates sound and equitable legislative principles.

Conducts advertising conventions for exchange of views on improved practices, desirable standards, and economies.

Acts as a clearing house for activities encouraging worldwide use of motor transport.

Numbers of makes of vehicles produced by members: passenger cars, 40; motor trucks, 42; taxicabs 4; buses, 17; special vehicles, such as fire, ambulances, 9.

## National Automobile Dealers Association

**GENERAL OFFICES:** 75 East Wacker Drive, Chicago, Ill.

**PRESIDENT:** Frank J. Edwards, Milwaukee, Wisc.

**SECRETARY AND GENERAL MANAGER:** C. A. Vane.

**OBJECT** is promotion of automobile dealer business, constructive publicity on dealer aims, maintenance of high merchandising standards, research on the magnitude of the business, study of markets and dissemination of facts concerning the same, opposition to harmful legislation, support of good legislation, promotion of good roads.

## Motor and Equipment Association

**EXECUTIVE HEADQUARTERS:** Fisk Building, 250 West 57th Street, New York.

**PRESIDENT:** E. T. Satchell, Motor Accessories Co., Allentown, Pa.

National organization, representing interests of manufacturers and wholesale distributors of raw materials; machinery; tools; motors; automotive, aircraft and marine accessories, parts and equipment; mechanical and electrical devices. Association maintains credit, sales development, export, show and legislation departments.

## Rubber Manufacturers Association, Incorporated

**GENERAL OFFICES:** 250 West 57th Street, New York City.

**PRESIDENT:** J. D. Tew.

**GENERAL MANAGER:** A. L. Viles.

A national trade organization embracing rubber manufacturers of the United States.

Its membership consists of 108 firms, and its object is to promote in all lawful ways the commercial interests of its members, and secure the advantages to be obtained through mutual co-operation, also to stimulate social intercourse among those connected with the rubber industry and commerce and in general for the promotion of the welfare of the rubber industry.

## National Association of Taxicab Owners

**HEADQUARTERS:** 500 North Dearborn Street, Chicago, Ill.

**PRESIDENT:** W. W. Cloud, Baltimore, Md.

**SECRETARY:** J. G. Williams, Chicago, Ill.

### PURPOSES

To afford our members a medium of cooperation. To collect and disseminate information that promotes the economical conduct of the taxicab business.

To establish and maintain cordial relations with the public.

To strive for safety on the highways.

## Associations of Automobile Industry (Continued)

### Society of Automotive Engineers, Inc.

GENERAL OFFICES: 29 West 39th Street, New York City.

PRESIDENT: Vincent Bendix, New York, N. Y.  
SECRETARY AND GENERAL MANAGER: John A. C. Warner.

OBJECT of the Society is to promote the arts, sciences, standards, and engineering practices connected with the design, construction and utilization of automotive apparatus, of all forms of self-propelled or mechanically propelled mediums for the transportation of passengers or freight, and internal combustion prime-movers. Publications are: *Transactions* (annual); *S. A. E. Membership Roster* (annual); *The S. A. E. Journal* (monthly); and *S. A. E. Handbook*, including *Standards and Recommended Practices* (revised semi-annually). Over 600 distinct mechanical and material standards, specifications, mounting dimensions of parts and accessories have been established by S. A. E. Membership over 7,000.

### National Standard Parts Association

GENERAL OFFICES: 1304 Eaton Tower, Detroit, Mich.

PRESIDENT: C. M. Burgess, Burgess-Norton Mfg. Co., Geneva, Ill.

EXECUTIVE VICE-PRESIDENT: E. P. Chalfant, 1304 Eaton Tower, Detroit, Mich.

MEMBERSHIP comprises corporations, firms or persons engaged in manufacturing and of jobbing standard brands of automotive service parts, shop tools and equipment.

OBJECTS: The objects of the Association are to promote an enlarged acquaintance and a more friendly intercourse among its members and in all reasonable, lawful and proper ways to promote the best interests of the automotive service parts trade.

### Motor Vehicle Conference Committee

OFFICES: Marlin-Rockwell Building, 366 Madison Avenue at 46th Street, New York City.

CHAIRMAN: D. C. Fenner.

SECRETARY: Richard S. Armstrong.

The Motor Vehicle Conference Committee, organized in 1919, is composed of representatives from the following organizations: American Automobile Association, Motor and Equipment Association, National Automobile Chamber of Commerce, National Automobile Dealers Association, The Rubber Manufacturers Association, and the National Association of Motor Bus Operators.

This Committee acts as a clearing house for the legislative problems which, in increasing numbers, are confronting the individual members of its component organizations.

### National Association of Finance Companies

GENERAL OFFICES: 333 N. Michigan Avenue, Chicago, Ill.

PRESIDENT: Victor L. Brown, Milwaukee, Wisc.  
SECRETARY AND GENERAL MANAGER: C. C. Hanch.

OBJECT: Coordination of forces for educational, legislative, and other purposes, generally cooperative with allied interests. A national organization representing automotive financing and insuring interests along the following lines: Advocates sound credit terms. Opposes vicious state and national legislation and promotes desirable state and national legislation. Distributes valuable data in the shape of educational, legal, statistical, and production bulletins and briefs. Secures material reduction in cost of essential services used by members. Arranges for interchange of service between members in collection and credit work and location of embezzlers of motor vehicles.

### American Automobile Association

NATIONAL HEADQUARTERS: Pennsylvania Avenue at 17th Street, N. W., Washington, D. C.

PRESIDENT: Thos. P. Henry, 41 Burroughs Avenue, Detroit, Mich.

EXECUTIVE VICE-PRESIDENT: Ernest N. Smith, Washington, D. C.

GENERAL MANAGER: C. P. Clark.

The A. A. A. was organized in Chicago in March, 1902. It is now the world's largest motor federation—composed of 1,000 motor clubs throughout the country and approximately 900,000 members. It is a national civic body, operating without personal profit and officered by responsible business and professional men.

OBJECTS: Its objects, briefly stated, are:

To unite in one body all the automobile clubs and individual motorists in the country.

To secure reasonable and just legislation and to aid in proper enforcement of automobile laws and ordinances.

To obtain local, state and federal aid in the construction and maintenance of good roads.

To encourage travel by automobile, bus, steamship and air, and to secure, prepare, and disseminate information relative thereto.

To support sportsmanlike contests and other movements that will advance motoring interests.

To develop service to motorists through clubs.

To promote highway safety by motorists and pedestrians, and to develop it among children through safety lessons and school boy patrols.

To facilitate touring by Americans in foreign countries, furnish customs papers, driving licenses and necessary documents.

### National Association of Motor Bus Operators

PRESIDENT: A. M. Hill, 601 Virginia St., Charleston, W. Va.

VICE-PRESIDENT: R. T. Whiting, 300 Central Terminal Bldg., Seattle, Wash.

SECRETARY-MANAGER: John M. Meighan, Washington, D. C.

The National Association of Motor Bus Operators, now in the fifth year of its existence as the national trade association of motor bus owners and operators, was formally organized early in 1926 as the Motor Bus Division of the American Automobile Association. In 1929 the name was officially changed to the National Association of Motor Bus Operators. Affiliation with the American Automobile Association, however, was retained.

Membership in the National Association of Motor Bus Operators is open to all operators of motor buses, to state associations of motor bus operators, and to manufacturers, distributors and other persons, firms, or corporations having dealings of a general nature with operator members of the Association.

All activities that promote the welfare and prosperity of motor bus operators and of the bus industry as a whole are within the scope of the Association's program. These include national, state and municipal legislation, important litigation, the collection and dissemination of bus operating cost and tax data, and the distribution to the public of facts on the economy and convenience of bus travel.

### National Association of Automobile Show and Association Managers

GENERAL OFFICES: Chestnut and 56th Streets, Philadelphia, Pa.

PRESIDENT: Robert E. Lee, St. Louis, Mo.

A National Association composed of managers of local automobile dealer associations, and of automobile shows sponsored by these local organizations.

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